BIBLIOGRAPHY OF SOIL SCIENCE, FERTILIZERS AND GENERAL AGRONOMY

1947–1950

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BIBLIOGRAPHY OF SOIL SCIENCE

BIBLIOGRAPHY of SOIL SCIENCE, FERTILIZERS and GENERAL AGRONOMY

1947-1950

COMMONWEALTH BUREAU OF SOIL SCIENCE
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PREFACE

This, the sixth volume of the Bibliography of Soil Science, includes the papers abstracted in *Soils and Fertilizers*, Vols. 11-13 (1948-1950). A reference to the abstract in *Soils and Fertilizers* is given in the Bibliography on the right of the page at the end of each entry—thus an abstract of the third entry in the Bibliography will be found in *Soils and Fertilizers*, Vol. XII, abstract No. 1613.

Arrangement of the Entries

Each entry in the Bibliography consists of a classification number, followed by the authors' names, the title of the paper (in English), and the reference to its original publication (journal, volume, year of issue, pages). When a paper has been noted in an abstract journal, this is indicated after the original reference: e.g., *Dokl. Akad. Nauk S.S.S.R.* 62, 1948 (657-659). C.A. 43 (1890). A capital letter in square brackets following the reference denotes the language in which the paper is written; a small letter denotes that there is a summary in another language—e g., [G.e.]=German with English summary. English [E.] is only indicated for papers published in journals usually written in other languages. It has not been thought necessary to give a list of the letters used to indicate language, as the meaning of the letters is usually self-evident.

The order of the entries is according to their classification numbers, the significance of which is explained below.

The Universal Decimal Classification

This system provides for any subject being represented by a symbol in the form of a decimal number. The whole of knowledge is regarded as unity, and is divided into ten great classes represented by decimal numbers, viz.:—

.0	General works	.5	Pure sciences
.1	Philosophy	.6	Applied sciences
.2	Theology	.7	Art
.3	Social sciences. Law	.8	Literature
.4	Philology	.9	History. Geography. Biography

Further division of these classes is made by extending the decimal, each extension representing a specialization of the preceding one:—

.6	Applied sciences	.63144	Soil types
.63	Agriculture	.631445	Climatic soil types
.631	Agronomy	.6314457	Tropical soils
.6314	Soils	.63144573	Laterite

Although these numbers are decimals, it is customary to omit the first decimal point, and to insert a point between every three figures, e.g., the number for laterite is always written 631.445.73. This greatly facilitates reading, but it must always be remembered that the numbers are actually decimals, since entries are arranged in numerical decimal order, 63 succeeding 629 and preceding 631. The decimal arrangement has the advantage that the subjects classified can be greatly diversified, while at the same time closely related subjects occur consecutively in the bibliography.

Each decimal number represents a specific subject, but more frequently than not, papers deal with the interrelations of two or more subjects. Various devices are used for expressing compound notions, the most common being the colon (:). For example, a paper on the fixation (631.414.3) of soil phosphates (631.416.2) is numbered

631.416.2 : 631.414.3

and is placed in the bibliography between papers on soil phosphates in relation to clay (631.414.2) and soil phosphates in relation to acidity (631.415.1), thus

631.416.2	Phosphates in soil
....	
631.416.2 : 631.414.2	Phosphates in relation to clay
631.416.2 : 631.414.3	Phosphate fixation
631.416.2 : 631.415.1	Phosphates in relation to acidity
....	
631.416.3	Trace elements (non-metallic) in soil.

An alternative symbol for expressing compound notions is the hyphen, which is used to save repetition where there is a common class number. The hyphen may only be used in certain specified places, for example, in the crops section where provision is made for any number in the 631 (agronomy) and 632 (plant-diseases) sections to be hyphened to numbers in the 633 to 635 (economic-plants) sections. Thus the symbol for the nitrogenous manuring of apple trees is shortened from

634.11 : 631.84 to 634.11-1.84
(apples) (nitrogen
fertilizers)

the hyphen replacing the first two common figures 63. Although the hyphen may at first be found somewhat confusing, consideration will show that the hyphenated form of expressing a compound idea is often more logical than the longer coloned form. This will become clear if we write 631.4 as 63-1.4, "soils used in agriculture (63)". Then 634.9-1.4 becomes "soils used in forestry (634.9)", or "forest soils", whereas the longer form 634.9 : 631.4 would strictly denote "forestry in relation to agricultural soils".

A stroke (/) is used when two or more consecutive subjects are dealt with at a time, to show that all the intermediate numbers are included. A paper on potassic (631.83), nitrogenous (631.84) and phosphatic (631.85) manures would be numbered 631.83/5, and one on the distribution of economic plants throughout the world, 633/5, to cover all the plants in each of the sections 633, 634 and 635.

Occasional use has also been made in the Bibliography of the so-called "analytical subdivisions" indicating general notions, such as colour, applicable to a series of subjects. Analytical subdivisions are distinguished by having the cypher 0 as the first figure, and they are suffixed to, and become a part of, the number denoting the main subject:—

061.6	colour	631.4.061.6	soil colour

Arrangement of the Bibliography

The arrangement of the Bibliography follows the classification's general principle of proceeding in order of increasing specialization, so that papers on the whole subject are followed by those on its branches. The entries follow in numerical (decimal) order, then within any number chronologically by year and finally alphabetically by author under each year. Simple numbers precede colons and colons precede hyphens. The system will immediately be clear on reference to the Bibliography. A complete list of all the numbers used is given on pp. xiv-xxviii, but the main key to the Bibliography is the alphabetical Subject Index at the end of the book.

The Index to the Bibliography

Entries in the Index indicate where all the papers dealing with any particular subject are to be found. Thus "Soil reaction—631.415.1" denotes that all papers of which soil reaction is the principal theme occur in the Bibliography under that number. These papers are classified either merely as 631.415.1, or as 631.415.1 followed by a colon and another number, e.g., 631.415.1 : 545.371—indicator (545.371) measurement of pH. There are, however, scattered through different parts of the Bibliography numerous papers in which the soil-reaction number comes second (after a colon or hyphen). Thus, "the influence of pH on cation-exchange capacity" 631.414.3.03:631.415.1 is listed in the 631.414.3.03 section of the Bibliography, but the existence of papers on this and related subjects, and the fact that they have a bearing on soil reaction are noted in the index as follows:

Soil reaction . 631.415.1
....
effect on cation-exchange capacity 631.414.3.03 :
....
soil temperature and 631.436 :

the indented entries indicating that papers on soil reaction in relation to cation-exchange capacity and soil temperature are listed under 631.414.3.03 : 631.415.1 and 631.436 : 631.415.1 respectively. The indented and main entries together comprise a complete index to every paper containing 631.415.1 anywhere in its classification number.

Certain numbers, particularly those outside the 63 section, never occur first in the classification symbols, but only after a colon. These are indexed in precisely the same way as the more frequently occurring agricultural and soil numbers, e.g.—

Manganese 546.711
in plant nutrition 631.811.9 :

No papers will be found under the simple number 546.711 but there are three under 631.811.9 : 546.711, to which the above entry in the Index refers. When three numbers are used in classifying a paper, the first two are treated as one for purposes of cross-indexing, e.g.—

Soil reaction 631.415.1
effect on cork spot of peas 634.13-2.191-

the principle being to cross-index every number which occurs second or third to the number or numbers *preceding* it in the classification symbol.

Hyphened numbers are indexed in the same way as if they were coloned, but it must be remembered that the first two figures in the second of two hyphened numbers are omitted when the symbol is printed.

In order to economize space, hyphened numbers compounded of the crop sections (633/5) and any of the following sections

631.4 (soils) e.g. 633.72-1.4—tea soils,
631.5 (culture) e.g. 633.491-1.5—potato culture,
631.81 (fertilizers) e.g. 633.11-1.81—fertilizers for wheat,

are not specifically referred to in the Index, since almost every crop number is hyphened to -1.4, -1.5 and -1.81. These sections all represent very general subjects, and the user interested in soils, culture or fertilizers for a particular crop need only ascertain the number assigned to the crop, and can refer immediately to the corresponding hyphened part of the crop section in the Bibliography.

Where many, but not all, crop numbers are hyphened to certain numbers—e.g. to -1.83, -1.84 and -1.85 (K, N and P fertilizers)—space is saved in the Index by not giving each crop a separate line, but merely listing the crop numbers, thus—

Phosphate fertilizers 631.85
....
....
Crops: 633.15-, 633.2-,...........634.975-, 635.13-

indicating that references to phosphate fertilizing will be found under 633.15-1.85, 633.2-1.85, etc.

The subjects listed in the Index have been expressed in as brief and general a form as possible, since one entry frequently covers several papers dealing with the same subject from different standpoints.

The Geographical Bibliography

Papers with an essentially local interest, e.g., soil surveys, are listed in a separate "geographical" bibliography, following the main one. The ordinary classification numbers of these papers are preceded by a geographical number, enclosed in brackets, indicating the place to which each paper refers, and the papers are arranged primarily according to these numbers and afterwards in the order followed in the main bibliography. A list of geographical numbers is given at the end of the Numerical Index, and they are also included in the Subject Index under the places to which they refer. Papers in the Geographical Bibliography are shown in the Index by the letter (G), followed by the appropriate geographical numbers, e.g.,

Grassland 633.2.03
....
(G) (42), (44), (492), (493), (494), etc.

indicates that besides the references to grassland in the Main Bibliography, others of local interest occur in the Geographical Bibliography under (42)633.2.03—"grassland in England"—etc.

INDEX TO CLASSIFICATION NUMBERS

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005	Apparatus
016	Bibliographies
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(083.72)	Nomenclature

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34	Legislation
37	Education

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.2	Plant growth
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.671	Irrigation water

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631.811.9	Trace elements
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.833.2	Potassium sulphate
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631.841.5	Cyanamide
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.7	Urea
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631.842	Nitrate fertilizers
.3	Sodium nitrate
.4	Ammonium nitrate
631.847.2	Bacterial inoculation
631.85	**Phosphate fertilizers**
631.85 : 546.185	Phosphoric acid
631.85 : 546.185-33	Metaphosphate
631.85 : 546.185-35	Orthophosphoric acid
631.851	Rock phosphate. Phosphorite
.853	Basic slag
.854	Guano
.855	Superphosphate
631.855 : 66.095.1	Alkylation phosphate
631.857	Colloidal phosphate
.858	Calcined phosphates
.859.1	Ammoniated phosphates
.42	Magnesium phosphates
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631.86 : 636.5	Poultry manure
631.862	Liquid manure
.863	Night soil
.867.4	Fish residues
.5	Blood as manure
.6	Horn as manure
631.87	Vegetable organic manures
631.871	Plant residues
.873	Seaweed
.874	Green manure
.875	Composts

631.876	Oil cakes
.876.2	Distillery waste
.876.9	Industrial residues
.877	Waste waters
.878	Coal and peat as fertilizer
.879.1	Town refuse as fertilizer
.2	Sewage
.3	Sawdust
631.893	**Mixed and compound fertilizers**
631.893.12	Nitrophos
.123	Nitrophoska
.14	Nitrochalk
.246	Olivine phosphate

632 PLANT DISEASES AND PROTECTION

632.111	Frost injury
.112	Drought injury
.181	Flood injury
.183	Wind injury. Lodging
.184	Smoke injury
.191	Deficiency diseases. Chlorosis
.192	Toxicity in plants
632.2	Nematode diseases
632.3	Bacterial diseases
632.4	Fungal diseases
632.51	Weeds
.536	Bracken (*Pteridium aquilinum*)
.537.4	Horsetail (*Equisetum arvense*)
.554.21	Crabgrass (*Syntherisma*). Kans grass (*Saccharum spontaneum*). Quack grass (*Agropyron repens*)
.554.22	Nut grass (*Cyperus rotundus*)
.556.7	Water hyacinth
.557.1	Rushes
.568.32	Hoary cress (*Lepidium draba*). Winter cress (*Barbarea arcuata*)
.571.7	*Ribes* as weed
.573.6	Gorse
632.573.7	*Mimosa pudica* as weed
632.576.5	Poison ivy (*Rhus radicans*) Poison oak (*Rhus diversiloba*)
.579	Cape tulip (*Homeria collina*)
.582.4	Klamath weed (*Hypericum perforatum*)
.594.2	Bindweed (*Convolvulus arvensis*)
.594.91	Lantana
.594.92	Mint weed (*Salvia reflexa*)
.595.16	Witchweed (*Striga*)
.595.26	Buñga ñg tubo (*Aeginata indica*)
.599.8	Thistle
632.7	Insect pests. Entomology
.732	Termites
.765	Wireworms
.77	Tsetse fly
632.8	Virus diseases
632.951	Insecticides
.951.22	Carbon disulphide
.953	Soil disinfectants
.954	Weedkillers
632.954 : 577.17	Hormone weedkillers
632.954 : 631.589	Flame cultivation
632.954.6	Cyanamide
.8	Sodium chlorate

633 CULTIVATED CROPS

633.1	**Cereals**
633.11	Wheat
.12	Buckwheat
.13	Oats
.14	Rye
.15	Maize
16	Barley
.17	Millet. Sorghum
.18	Rice
.19	Adlay (*Coix lachryma-jobi*). Bajri (*Pennisetum typhoideum*)
633.2	**Grasses**
633.2.03	Grassland
633.2.03-1.582	Ley farming
633.2.03-1.587	Water meadows
633.21	Bluegrass, *Poa*
.22	Cocksfoot (*Dactylis*)
.262	Brome grass
.282	Bluestem (*Hyparrhenia*)
.285	Esparto. Reed
.288	Lovegrass (*Eragrostis* spp.). Pampas grass
633.3	**Legumes**
633.31	Lucerne (*Medicago sativa*)
.317	Bur-clover (*Medicago arabica. M. hispida*)
.32	Clovers
.321	Red clover (*Trifolium pratense*)
.322	Ladino clover (*T. repens* L. var. *latum*)
.326	Subterranean clover (*T. subterraneum*)
.329	Berseem (*T. alexandrinum*)
.33	Cowpea (*Vigna*)
.34	Soybean
.35	Vetch (*Vicia*)
.364	Lespedeza
.366	Sweet clover (*Melilotus*)
.367	Lupin
633.37	Guandu (*Cajanus cajan*). Mulga. Partridge pea *Chamaecrista fasciculata*)
.374	*Lotus*
.376	Serradella (*Ornithopus*)
.377	Derris
.378	Lathyrus
.379	Kudzu. Lima bean
.39	*Amaranthus edulis*. Guar (*Cyamopsis tetragonoloba*)
633.4	**Root crops**
633.41	Beet
.42	Colza. Rape. Turnip
.425	Kohl-rabi
.426	Swede
.491	Potato
633.491-1.332	Potato planters
633.492	Sweet potato
.498	Country potato (*Coleus rotundifolius*)
633.5	**Fibre crops**
.51	Cotton
.513	Kapok
.52	Flax
.522	Hemp
.523	Jute
.524.1	Sunn hemp (*Crotalaria*)
.524.3	Kenaf (*Hibiscus cannabinus*)
.524 33	*Urena lobata*
.525.1	Ramie
.526.1	Manila hemp (*Musa textilis*)
.526.22	Henequen
.526.23	Sisal
.526.41	*Phormium tenax*
.584.5	Bamboo
633.6	**Sugar and starch plants**
633.61	Sugar cane
.62	Jowar
.63	Sugar beet

633.682	Cassava
.685	Yam
.689	Ubi kemili (*Coleus tuberosus*)
633.7	**Stimulants**
633.71	Tobacco
.72	Tea
.73	Coffee
.74	Cacao
.75	Poppy
.79	Hops
633.8	**Aromatic, medicinal and oil plants**
633.811.33	Golden seal (*Hydrastis canadensis*)
.812.424	Rosha grass (*Cymbopogon martini* Stapf. var. *motia*)
.812.677.3	Bay-rum tree (*Pimenta racemosa*)
.812.75	*Leonurus cardiaca*
.814.611.2	Benzoin (*Styrax*)
.815.427	Vetivert
.821	Vanilla
.822	Peppermint
.831	Pimiento
.841	Pan (*Piper betle*)
.842	Paprika
.843	Golden pepper

633.85	Oil plants
.852.261	*Camellia japonica*
.852.52	Groundnut (*Arachis*)
.853.348.3	*Eruca sativa*
.853.48	*Conringia orientalis*
.853.55	Castor-oil plant (*Ricinus*)
.853.74	*Sesamum*
.854.56	Tung (*Aleurites*)
.854.78	Sunflower
.854.793	Cocklebur (*Xanthium*)
.854.797	Safflower
.855.34	Oil palm
.861.3	Turmeric
.88	Medicinal plants
.883.85	Areca nut
.885.1	Cinchona
.887.791	Pyrethrum
.888.421	Stramonium
.888.43	*Hyoscyamus*
633.91	**Rubber plants**
.912	*Hevea*
.913.31	Guayule (*Parthenium argentatum*)
.913.32	Kok-saghyz (*Taraxacum*)
.913.421	Milkweed (*Asclepias syriaca*)

634 ORCHARDS. FRUIT

634.1	**Pome fruits**
634.11	Apple
.13	Pear
634.2	**Stone fruits**
634.21	Apricot
.22	Plum. Prune
.23	Cherry
.25	Peach
634.3	**Citrus**
634.31	Orange
.323	Grapefruit
.334	Lemon
.37	Fig
.38	Mulberry
634.4	**Small fruits**
634.42	Guava
.431	Chico fruit (*Achras sapota*)

634.441	Mango
.461	*Leucaena glauca*
634.5	**Nuts**
634.51	Walnut
.521	Pecan
.55	Almond
.571	Litchi
.573	Cashew nut (*Anacardium occidentale*)
634.6	**Palm fruits**
634.61	Coconut
.62	Date palm
.63	Olive
.651	Papaya
.653	Avocado
.675	Cape gooseberry (*Physalis peruviana*)

634.7	**Bush fruits**
.711	Raspberry
.715	Blackberry
.723	Black currant
.73	Blueberry
.75	Strawberry
.76	Cranberry
634.771	Banana
.772	Plantain (*Musa paradisiaca*)
.774	Pineapple
.776	Passion fruit
634.8	**Viticulture**

634.9 FORESTRY

634.9-1.4	Forest soils
634.95	**Silviculture**
634.953.6	Shade trees. Windbreaks. Shelterbelts
.956.4	Forest nurseries
.957	Afforestation
634.972/3	**Deciduous trees. Hardwoods**
634.972.1	Oak
.3	Poplar
.5	Beech
.8	Elm
634.973.713.6	Black locust (*Robinia*)
.736	Mopane (*Copaifera mopane*)
.766.4	*Ilex lucida*
.825	Sal (*Shorea robusta*)
.949	Teak
634.975	**Conifers**
634.985	Bark
.989.82	Brushwood
.84	Forest litter

635 VEGETABLES

635.13	Carrot
.14	Parsnip
.25	Onion
.263	Shallot
.31	Asparagus
.34	Cabbage
.347	Kale
.35	Cauliflower
.41	Spinach
.48	Rhubarb
.5	Salad crops
.52	Lettuce
635.53	Celery
.61	Melon
.611	Cantaloupe
.615	Watermelon
.62	Squash
.64	Tomato
.646	Egg plant
.65	Beans
.656	Peas
.658	Lentils
.8	Mushroom

635.9 ORNAMENTAL HORTICULTURE

635.935	Bulbous plants
.935.722	Lilies
.935.79	Gladiolus. Iris
.937.12	Hydrangea
.937.34	Rose
.939.124	Azalea. Rhododendron
635.939.31	Lilac
.939.72	Gardenia
.946.69	Carnation
.964	Lawns. Turf
.98	Greenhouse plants

636/8 LIVESTOCK AND PRODUCTS

636	Livestock	636.5	Poultry
636.084.22	Grazing	637	Dairy farming
636.086.25	Straw	637.1	Milk
636.3	Sheep	638.16	Honey
636.39	Goats		

66/93 MISCELLANEOUS

661.183.2	Carbon black. Charcoal	778.35	Aerial photography
668.731	Tar	93	History
699	Buildings		

GEOGRAPHICAL NUMBERS

(4) EUROPE

(410)	Great Britain	(46)	Spain
(411)	Scotland	(469)	Portugal
(411.2)	Orkney	(47)	Russia
(416)	Northern Ireland	(471)	Finland
(417)	Éire, Irish Free State	(481)	Norway
(42)	England	(485)	Sweden
(429)	Wales	(489)	Denmark
(43)	Germany	(492)	Holland
(436)	Austria	(493)	Belgium
(437)	Czechoslovakia	(494)	Switzerland
(438)	Poland	(495)	Greece
(44)	France	(496)	Turkey (European)
(45)	Italy	(497.1)	Yugoslavia
(458)	Sicily	(497.2)	Bulgaria
(459.1)	Sardinia	(498)	Rumania

(5) ASIA

(51)	China	(564.3)	Cyprus
(52)	Japan	(567)	Iraq
(527.1)	Kuril Islands	(569)	Palestine
(527.5)	Sakhalin	(569.1)	Lebanon
(529.1)	Formosa (Taiwan)	(57)	Siberia
(54)	India	(58)	Kazakhstan
(545)	Pakistan	(584)	Central Asia
(548.7)	Ceylon	(59)	Indo-China
(549.4)	Pondicherry	(593)	Siam
(56)	Turkey (in Asia)	(595)	Malaya

(6) AFRICA

(61)	North Africa
(611)	Tunisia
(62)	Egypt
(624)	Anglo-Egyptian Sudan
(63)	Ethiopia (Abyssinia)
(64)	Morocco
(648)	Spanish Sahara
(649)	Canary Islands
(65)	Algeria
(66/67)	Central Africa
(66)	North Central Africa
(661)	French West Africa
(663)	Senegal
(664)	Sierra Leone
(665.2)	French Guinea
(666)	Ivory Coast
(667)	Gold Coast
(668.1)	Togo
(669)	Nigeria
(671)	Cameroons
(672)	French Equatorial Africa
(673)	Angola
(675)	Congo
(676)	East Africa
(676.1)	Uganda
(676.2/9)	Kenya
(677)	Somaliland
(678)	Tanganyika
(678.1)	Zanzibar
(679)	Mozambique
(68.01)	Union of South Africa
(683)	Swaziland
(689.1)	Southern Rhodesia
(689.4)	Northern Rhodesia
(689.7)	Nyasaland
(691)	Madagascar
(694)	Comoro Islands
(698.2)	Mauritius
(699.23)	Ascension Island

(7) NORTH AND CENTRAL AMERICA

(71)	Canada
(711)	British Columbia
(712)	Prairie Provinces
(712.2)	Northwest Territories of Canada
(712.3)	Alberta
(712.4)	Saskatchewan
(713)	Ontario
(714)	Quebec
(715)	New Brunswick
(72)	Mexico
(728/9)	Caribbean
(728)	Central America
(728.1)	Guatemala
(728.4)	Salvador
(728.6)	Costa Rica
(729)	West Indies
(729.1)	Cuba
(729.2)	Jamaica
(729.3)	Dominica
(729.4)	Haiti
(729.5)	Puerto Rico
(729.7)	Leeward Islands
(729.8)	Curaçao. Trinidad
(73)	United States
(74)	North-eastern United States (Delaware, New York, Pennsylvania, Vermont)
(75/6)	Tennessee Valley
(75)	South-eastern United States (Florida, Georgia, N. and S. Carolina)
(76)	Southern United States (Alabama, Arkansas, Louisiana, Mississippi, Oklahoma, Texas)
(77)	North-central United States (Illinois, Indiana, Iowa, Michigan, Minnesota, Missouri, Wisconsin)

(78)	Middle-western United States (Arizona, Colorado, Kansas, Nebraska, New Mexico, North Dakota)
(79)	Western United States (California, Idaho, Montana, Oregon, Utah)
(798)	Alaska

(8) SOUTH AMERICA

(81)	Brazil
(82)	Argentina
(83)	Chile
(85)	Peru
(86)	Colombia
(866)	Ecuador
(87)	Venezuela
(881)	British Guiana
(899)	Uruguay

(9) OCEANIA

(914)	Philippine Islands
(92)	Indonesia
(931)	New Zealand
(934.5)	Nauru Islands
(94)	Australia
(941)	Western Australia
(942)	South Australia
(943)	Queensland
(944)	New South Wales
(944.9)	Canberra
(945)	Victoria
(946)	Tasmania
(95/6)	Pacific Islands
(95)	New Guinea
(951)	Dutch New Guinea
(961)	Fiji
(969)	Hawaiian Islands

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(945,633.2.03-1.67—Morgan, A. Irrigated pastures in Victoria. *J. Dept. Agric. Victoria* 47, 1949 (97-105). [xii, 1610

(945)633.2.03-1.67—Morgan, A. Irrigated pastures in Victoria. 2. *J. Dept. Agric. Victoria* 47, 1949 (199-207). [xii, 1979

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(945)634-1.51—Goudie, A. G. Cultivation in Victorian orchards and vineyards. Advantages and disadvantages. *J. Dept. Agric. Victoria* 47, 1949 (459-464). [xiii, 1307

(945)634.334—McAlpin, D. M.; Rolfe, W. A. Lemon growing in Victoria. *J. Dept. Agric. Victoria* 46, 1948 (433-441). [xii, 367

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(946)631.473—Hubble, G. D. A soil survey of part of Waterhouse Estate, County of Dorset, Northeast coast, Tasmania. *Aust. Counc. Sci. Indust. Res. Bull.* 204, 1946, pp. 63. [xi, 744

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(95/6)631.4—Ojala, E. M. Grassland plains soil of Guadalcanal, British Solomon Islands. *N.Z. J. Sci. Tech.* 29A, 1947 (18-21). [xi, 402

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(95/6)634.61-1.584—Burcham, L. T. Livestock grazing in the Russell Islands. *J. Forestry* 45, 1947 (113-117). [xi, 2026

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(95)63—Atherton, D. O. Native agriculture in New Guinea. *J. Aust. Inst. Agric. Sci.* 14, 1948 (107-112). [xii, 787

(951)631.4—Beusechem, D. van. [Short account of the known soil conditions and agricultural value of fourteen districts of Dutch New Guinea.] *Landbouw* 20, 1948 (210-229). [Du. [xii, 1612

(961)63—World Crops. Agriculture in Fiji. *World Crops* 2, 1950 (227-228). [xiii, 1756

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(961)631.4—Smythe, L. E. Soil science in Fiji. Part I. *Fiji Agric. J.* 18, No. 3, 1947, pp. 2. [xi, 1710

(961)631.4—Blackie, W. J. Soils of Fiji. *Comm. Bur. Soil Sci. Tech. Commun.* 46,1949 (54-58). [xii, 2414

(961)631.44—Smythe, L. E. Soil science in Fiji, V. and VI. Problems of soil classification in Fiji. *Fiji Agric. J.* 19, 1948 (82-87). [xii, 2415

(961)631.459 : 631.61—Harvey, C. Soil conservation in Fiji. *Corona* 1, 1949, No. 9 (19-22). [xiii, 861

(961)631.459 : 631.61—Nandan, S. Soil conservation on peasant farms. *Fiji Agric. J.* 20, 1949 (35-37). [xiii 1757

(961)631.459 : 631.61—Whitehead, C. E. A soil conservation project in Nadroga-Navosa. *Fiji Agric. J.* 20, 1949 (9-13). [xiii, 452

(961)633.18—Harwood, L. W.; Jan, S. R. Five years of padi production in the Northern Division. *Fiji Agric. J.* 18, 1947 (43-46). [xi, 745

(961)633.2.03-1.5—Little, R. P. Repasturing a dairy farm in the Navua district. *Fiji Agric. J.* 20, 1949 (67-69). [xiii, 2669

(969)631.811.4—Sherman, G. D.; Fujimoto, C. K.; Kanehiro, Y. Lime requirement of acid Hawaiian soils. *Hawaii Agric. Expt. Sta. Rept. 1944-1946*, 1947 (52-54). [xi, 746

(969)633.61-1.5—Clayton, J. L. Sugar cane agriculture in Hawaii. *Queensland Cane Grow. Bull.* 12, 1948 (59-79). [xii, 788

(969)634.774-1.5—Cooke, F. C. The pineapple industry of the Hawaiian Islands. *Malaya Dept. Agric. Gen. Ser.* 32, 1949, pp. 118. [xiii, 1758

(969)635-1.81 : 581.192—Miller, C. D.; Ross, W.; Louis, L. Hawaiian-grown vegetables. *Hawaii Agric. Expt. Sta. Tech. Bull.* 5, 1947, pp. 45. [xi, 404

LIST OF ABBREVIATIONS OF JOURNALS AND PERIODICALS

[The abbreviation is followed by the full title of the journal, and place of publication (where known).]

ASTM Proc. American Society for Testing Materials. Proceedings. Philadelphia, Pa.

Abhandl. Geol. Landesanstalt Berlin. Abhandlungen der Geologischen Landesanstalt. Berlin.

Acta Agralia Fenn. Acta Agralia Fennica (Suomen Maataloustieteellisen Seuran Julkaisuja). Helsinki.

Acta Chem. Scand. Acta Chemica Scandinavica. Copenhagen.

Acta Forest. Fennica. Acta Forestalia Fennica. Helsinki.

Acta Phytogeograph. Suecica. Acta Phytogeographica Suecica.

Acta Soc. Bot. Polon. Acta Societatis Botanicorum Poloniae. Warsaw.

Acta Trop. Acta Tropica. Basel.

Adv. Agron. Advances in Agronomy. New York.

Advancement of Science. London.

Afinidad. Afinidad. (Órgano de la Asociacíon de Químicos del Instituto Químico de Sarriá.) Barcelona.

Ager Madrid. Ager. Madrid.

Agrártud. Egyet. Kert-Szölögazdasagtud. Karának Közl. Az Agrartudományi Egyetem Kert és Szölögazdaságtudományi Karának Közlémenyei. (Bulletin of the Faculty of Horticulture and Viticulture, University of Agricultural Science.) Budapest.

Agrártud. Szemle. Agrártudományi Szemle. Budapest.

Agrártudomány. Budapest.

Agric. Chem. Agricultural Chemicals. New York.

Agric. Engng. Agricultural Engineering. Banton Harbor, Michigan.

Agric. Engng. Rec. Agricultural Engineering Record. Institute for Research in Agricultural Engineering, University of Oxford. Oxford.

Agric. Gaz. N.S.W. Agricultural Gazette of New South Wales. Sydney.

Agric. Hist. Agricultural History. Washington, D.C.

Agric. in Americas. Agriculture in the Americas. Washington, D.C.

Agric. Inst. Rev. Agricultural Institute Review. Agricultural Institute of Canada. Ottawa.

Agric. Pakistan. Agriculture Pakistan. Karachi.

Agric. Prat. L'Agriculture Pratique. Paris.

Agric. Prog. Agricultural Progress. Newport, England.

Agric. Trop. Agricultura Tropical. Bogota.

Agric. Trop. Bogotá. Agricultura Tropical. Bogotá, Columbia.

Agric. Venezol. Agricultor Venezolano. Caracas.

Agricultura. Louvain.

Agricultura, Bogotá. Agricultura y Ganaderia. Bogotá.

Agriculture (London). (The Journal of the Ministry of Agriculture and Fisheries.) London.

Agriculture (Paris). Paris.

Agriculture, Québec. Montreal.

Agrobiologiya. Moscow.

Agron. Angolana. Agronomia Angolana. Luanda.

Agron. J. (*Formerly* J. Amer. Soc. Agron.). Agronomy Journal. Geneva, N.Y.

Agron. Lusit. Agronomia Lusitana. Estação Agronómica Nacional. Belém.

Agron. Trop. L'Agronomie Tropicale. Paris.

Agronomía Peru. Lima.

Agronomia, Rio de J. Rio de Janeiro.

Ala. Agric. Expt. Sta. Bull. Agricultural Experiment Station of the Alabama Polytechnic Institute. Bulletin. Auburn, Ala.

Ala. Agric. Expt. Sta. Prog. Rept. Ser. Alabama Agricultural Experiment Station. Progress Report Series. Auburn, Ala.

Ala. Agric. Expt. Sta. Rept. Alabama Agricultural Experiment Station. Annual Report. Auburn, Ala.

Ala. Polytechnic Inst. Agric. Expt. Sta. Circ. Alabama Polytechnic Institute. Agricultural Experiment Station. Circular. Auburn, Ala.

Alaska Agric. Expt. Sta. Bull. Alaska Agricultural Experiment Station. Bulletin. College.

Algérie Inspect. Gén. Agric. Bull. L'Algérie. Inspection Générale et Direction de l'Agriculture. Bulletin. Alger.

Algodón. (Cotton). Boletín de la Cámara Algodonera del Perú. Lima.

Allahabad Farmer. Allahabad.

Allg. Forst- u. Holzw. Ztg. Allgemeine Forst- und Holzwirtschaftliche Zeitung. Vienna.

Amer. Anthropol. American Anthropologist. Lancaster.

Amer. Fert. American Fertilizer. Philadelphia, Pa.

Amer. Inst. Crop. Ecol. Internat. Agro-Climat. Ser. American Institute of Crop Ecology. International Agro-Climatological Series. Washington, D.C.

Amer. J. Bot. American Journal of Botany. Lancaster, Pa.

Amer. J. Sci. American Journal of Science. New Haven, Conn.

Amer. Midl. Nat. American Midland Naturalist. Notre Dame, Ind.

Amer. Perfumer Essent. Oil Rev. American Perfumer and Essential Oil Review. New York.

Amer. Potato J. American Potato Journal. Somerville, N.J.

Amer. Soc. Sug. Cane Tech. Quart. Bull. American Society of Sugar Cane Technologists. Quarterly Bulletin.

An. Assoc. Quím. Brasil. Anais da Associação Química do Brasil. Rio de Janeiro.

An. Brasil. Econ. Flor. Anuario Brasileiro de Economia Florestal. Rio de Janeiro.

An. Col. Ing. Agron. Anales. Collegio de Ingenieros Agronomos. San Jose.

An. Edafol. Fisiol. Veg. Anales de Edafologia y Fisiologia Vegetal. Madrid. (*Formerly* Anales del Instituto Español de Edafología, Ecología y Fisiología Vegetal.)

An. Esc. Nac. Cienc. Biol. Anales de la Escuela Nacional de Ciencias Biologicas. Mexico, D.F.

An. Fac. Agron. Cluj. Analele Facultăţii de Agronomie Cluj. (Annales de la Faculté d'Agronomie de Cluj.) Cluj.

An. Fís. Quím. Anales de Física y Química. Madrid.

An. Inst. Cerc. Agron. Român. Analele Institutului de Cercetări Agronomice al României. (Annales de l'Institut de Recherches Agronomiques de Roumanie.) Bucharest.

An. Inst. Esp. Edafol. Anales del Instituto Español de Edafologia, Ecologia y Fisiologia Vegetal. Madrid. (*Now*: Anales de Edafología y Fisiología Vegetal.)

An. Inst. Sup. Agron. Lisboa. Anais Instituo Superior de Agronomia. Lisbon.

An. Rural. Annario Rural. La Plata.

An. Soc. Cient. Argentina. Anales de la Sociedad Cientifica Argentina. Buenos Aires.

An. Soc. Esp. Fís. Quím. Anales de la Sociedad Española de Física y Química. Madrid.

Anal. Chem. Analytical Chemistry. (*Formerly* Industrial and Engineering Chemistry, Analytical Edition.) Easton, Pa.

Anal. Chim. Acta. Analytica Chimica Acta. New York - Amsterdam.

Analyst. The Analyst. London.

Angew. Chem. Angewandte Chemie. Berlin.

Ankara Yüksek Zir. Enstitüsü Derg. Ankara Yükset Ziraat Enstitüsü Dergisi. Ankara.

Ann. Acad. Sci. Fenn. Annales Academiae Scientiarum Fennicae. (Suomalaisen Tiedeakatemian Toimituksia.) Helsinki.

Ann. Agric. Suisse. Annuaire Agricole de la Suisse. Berne.

Ann. Agron. Annales Agronomiques. Paris.

Ann. Appl. Biol. Annals of Applied Biology. London.

Ann. Assoc. Amer. Geog. Annals of the Association of American Geographers. Hamilton, New York.

Ann. Bot. Annals of Botany. London.

Ann. Bot. Vanamo. Annales Botanici Societatis Zoologico-Botanicae Fennicae, Vanamo. Helsinki.

Ann. Chim. Appl. Annali di Chimica Applicata. Rome.

Ann. Éc. Agric. Grignon Sér.

Ann. Éc. Eaux For. Nancy.

Ann. Épiphyt. Annales des Épiphyties. (*Formerly* Annales des Épiphyties et de Phytogénétique.) Paris.

Ann. Fac. Agrar. Portici. Annali della Facoltà di Agraria di Portici della Università di Napoli. Portici.

Ann. Fac. Agrar. Univ. Bari. Annali della Facoltà di Agraria della R. Università di Bari. Bari.

Ann. Fac. Agrar. Univ. Pisa. Annali della Facoltà di Agraria della R. Università di Pisa. Pisa.

Ann. Gembloux. Annales de Gembloux. Gembloux.

Ann. Géog. Annales de Géographie. Paris.

Ann. Inst. Agric. Algérie. Annales de l'Institut Agricole et des Services de Recherches et d'Expérimentation Agricoles de l'Algérie. Alger.

Ann. Inst. Nat. Agron. Annales de l'Institut National Agronomique. Paris.

Ann. Inst. Nat. Rech. Agron. Sér. Annales de l'Institut National de la Recherche Agronomique. Série. Paris.

Ann. Inst. Pasteur. Annales de l'Institut Pasteur. Paris.

Ann. Ist. Sper. Chim. Agrar. Torino. Annuario. Istituto di Sperimentazione per la Chimica Agrario in Torino.

Ann. Mag. Nat. Hist. Annals and Magazine of Natural History.

Ann. Nutrit. Aliment. Annales de la Nutrition et de l'Alimentation. Paris.

Ann. Phytopath. Soc. Japan. Annels of the Phytopathological Society of Japan.

Ann. Rev. Biochem. Annual Review of Biochemistry. Stanford University, California.

Ann. Rev. Microbiol. Annual Review of Microbiology. Stanford University, California.

Ann. Sper. Agrar. Roma. Annali della Sperimentazione Agraria. Rome.

Ann. Sta. Chim.-Agrar. Roma. Annali della R. Stazione Chimico-agraria Sperimentale di Roma. Rome.

Ann. Sta. Chim.-Agrar. Torino. Annali della Stazione Chimico-agraria di Torino. Torino.

Ann. Sta. Sper. Frutt. Agru. Acireale.

Ann. Trav. Pub. Belg. Annales des Travaux Publics de Belgique. Brussels.

Ann. Univ. Mariae Curie-Skłodowska. Annales Universitatis Mariae Curie-Skłodowska. Lublin.

Ann. Univ. Stellenbosch. Annale van die Universiteit van Stellenbosch (Annals of the University of Stellenbosch.) Capetown.

Annie B. Cunning Lectures on Nutrition. The Annie B. Cunning Lectures on Nutrition. Brisbane.

Antonie van Leeuwenhoek. Amsterdam.

Appl. Sci. Res. Applied Science Research.

Årb. Beitebr. Norge. Årbok for Beitebruk i Norge. Oslo.

Arb. Biol. Anst. (Reichsanst). Berl. Arbeiten aus der biologischen Reichsanstalt für Land- und Forstwirtschaft, Berlin-Dahlem. Berlin.

Arch. Biochem. Archives of Biochemistry. New York.

Arch. Met. Geophys. Bioklim. Archiv für Meteorologie, Geophysik und Bioklimatologie. Vienna.

Arch. Mikrobiol. Archiv für Mikrobiologie. Berlin.

Arch. Rubbercult. Archief voor de Rubbercultuur. Buitenzorg.

Arch. Soc. Zoo. Bot. Fenn. "Vanamo". Archivum Societatis Zoologicae Botanicae Fennicae "Vanamo". Helsinki.

Arctic.

Arh. Poljopr. Nauk. Teh. Arhiva za Poljoprivredne Nauke i Tehniku. Belgrade.

Ariz. Agric. Expt. Sta. Bull. Arizona Agricultural Experiment Station. Bulletin. Tucson.

Ariz. Agric. Expt. Sta. Tech. Bull. Arizona Agricultural Experiment Station. Technical Bulletin. Tucson.

Ark. Agric. Expt. Sta. Bull. Agricultural Experiment Station. University of Arkansas College of Agriculture. Fayetteville.

Ark. Bot. Arkiv för Botanik. Uppsala.

Arq. Biol. Tec. Arquivos de Biologia e Tecnologia. Parana.

Arq. Inst. Biol. S. Paulo. Arquivos de Instituto biologica (São Paulo.) São Paulo.

Arroz.

Årsskr. Alnarps Lantbr. Inst. Årsskrift från Alnarps Lantbruks-, Mejeri- och Trädgårdsinstitut. Malmö.

Assoc. Agric. Rev. Association of Agriculture. Review. London.

Assoc. Franç. Ét. Sol. Conf. Int. Pédol. Médit. *See* C.R. Conf. Pédol. Méditerr. Alger-Montpellier.

Atti Accad. Fisiocrit. Siena. Atti della R. Accademia dei Fisiocritici di Siena. Siena.

Atti Accad. Sci. Torino Classe Sci. Fis. Mat.

Atti Ist. Bot. Univ. Lab. Crittog. Pavia. Atti del'Istituto Botanico "Giovanni Briosi" e del Laboratorio Crittogamico dell'Universitá di Pavia.

Atti Relaz. Accad. Pugliese Sci. Atti e Relazioni dell'Accademia Pugliese delle Scienze. Bari.

Aust. Counc. Sci. Indust. Res. Bull. Commonwealth of Australia. Council for Scientific and Industrial Research. Bulletin. Melbourne.

Aust. Counc. Sci. Indust. Res. Irrig. Res. Stn. Griffith. Commonwealth of Australia. Council for Scientific and Industrial Research. Irrigation Research Station, Griffith, N.S.W.

Aust. Counc. Sci. Indust. Res. Rept. Commonwealth of Australia. Council for Scientific and Industrial Research. Report. Melbourne.

Aust. Dept. Comm. Agric. Bull. Commonwealth of Australia. Department of Commerce and Agriculture. Bulletin. Canberra.

Aust. Forestry. Australian Forestry. Perth.

Aust. Geog. Australian Geographer. Sydney.

Aust. J. Agric. Res. Australian Journal of Agricultural Research. Melbourne.

Aust. J. Counc. Sci. Indust. Res. Commonwealth of Australia. Journal of the Council for Scientific and Industrial Research. Melbourne.

Aust. J. Expt. Biol. Australian Journal of Experimental Biology and Medical Science. Adelaide.

Aust. J. Sci. The Australian Journal of Science. Sydney.

Aust. J. Sci. Res. Ser. B. Australian Journal of Scientific Research. Series B. Melbourne.

Aust. Sug. J. Australian Sugar Journal. Brisbane.

Az. Agrártud. Eg. Kert-Szölögazd. Karán. Közlem. *See* Agrártud. Egyet. Kert-Szölögazdaságtud. Karának. Közl.

B.A. British Abstracts. BIII. Agriculture, Foods, Sanitation. C. Analysis and Apparatus. London.

Bact. Rev. Bacteriological Reviews. Baltimore, Md.

Barbados Dept. Sci. Agric. Bull. Barbados Department of Science and Agriculture. Bulletin. Bridgetown.

Bath and West Soc. Pamph. Bath and West and Southern Counties Society. Pamphlet. Bath.

Beitr. Agrarwiss. Beiträge zur Agrarwissenschaft. Hannover.

Ber. Geobot. Inst. Rübel. Bericht des Geobotanischen Instituts Rübel. Zurich.

Ber. Landtech. Berichte über Landtechnik. Wolfratschausen.

Bergcultures. Bergcultures. Batavia.

Bergens Mus. Årb. Naturvit. Rekke. Bergens Museums Årbok Naturvitenskapelig Rekke. Bergen.

Bet. Vall. Moss. Beten Vallar Mossar. (*Formerly* Svenska Vall- och Mosskulturföreningens Kvartalsskrift.) Uppsala.

Better Crops. Better Crops with Plant Food. American Potash Institute. Washington, D.C.

Bibl. Agric. Bibliography of Agriculture. Washington, D.C.

Bibl. Arh. Poljopr. Nauk. Teh. Biblioteka Arhiva za Poljoprivredne Nauke i Tehniku. Belgrade.

Biljne Proizvodnje. Zagreb.

Biochem. J. Biochemical Journal. London.

Biochem. Ztschr. Biochemische Zeitschrift. Berlin.

Biochim. Biophys. Acta. Biochimica et Biophysica Acta. Amsterdam.

Biol. Abs. Biological Abstracts. Baltimore, Md.

Biol. Rev. Biological Reviews of the Cambridge Philosophical Society. London.

Biol. Zbl. Braunschweig Pamph.

Biol. Zbl. Leipzig. Biologisches Zentralblatt. Leipzig.

Biol. Zentralanst. Braunschweig Flugbl. Biologische Zentralanstalt Braunschweig. Flugblatt. Stuttgart.

Biol. Zentralanst. Land- und Forstwirts. Festschr. Otto Appel. Biologische Zentralanstalt für Land- und Forstwirtschaft. Festschrift Otto Appel.

Bodenkultur. Bodenkultur. Vienna.

Bol. Agric. S. Paulo. Boletim de Agricultura. São Paulo.

Bol. Inform. Min. Agric. Madrid. Boletín de Informacíon del Ministerio de Agricultura. Madrid.

Bol. Inst. For. Invest. Exp. Madrid.

Bol. Inst. Geol. Min. España.

Bol. Inst. Invest. Exp. Madrid. Boletin del Instituto de Investigaciones y Experiencias. Madrid.

Bol. Inst. Investig. Agron. Madrid. Boletin del Instituto Nacional de Investigaciónes Agronómicas. Madrid.

Bol. Inst. Quím. Agríc. Rio de J. Boletin do Instituto de Química Agrícola Rio de Janeiro. Rio de Janeiro.

Bol. Min. Econ. Dir. Tec. Agric. Ecuador. Boletín. Republica del Ecuador. Ministerio de Economia. Dirección Tecnica de Agricultura. Quito.

Bol. Pat. Veg. Ent. Agric. Madrid. Boletín de patología vegetal y entomología agricola. Madrid.

Bol. Prod. Fom. Agric. Boletín de Producción y Fomento Agrícola. República Argentina. Ministerio de Agricultura y Ganadería de la Nación. Buenos Aires.

Bol. Sec. Agric. Pernambuco. Boletin de la Secretaria de Agricultura, Industria e Comercio. Pernambuco.

Boll. Sta. Sper. Frutt. Agrum. Acireale.

Bot. Gaz. Botanical Gazette. Chicago.

Bot. Oecon. Botanica Oeconomicá. Hamburg.

Bot. Rev. Botanical Review. Lancaster, Pa.

Bot. Zh. S.S.S.R. Botanicheskii Zhurnal S.S.S.R. Leningrad.

Boyce Thompson Inst. Contr. Boyce Thompson Institute for Plant Research. Contributions. Yonkers, N.Y.

Boyce Thompson Inst. Prof. Pap. Boyce Thompson Institute for Plant Research Professional Papers. Yonkers, N.Y.

Bragantia. (Boletim Técnico da Divisáo de Experimentação e Pesquisas. Instituto Agronómico do Estado de São Paulo.) Campinas.

Brit. Agric. Bull. British Agricultural Bulletin. London.

Brit. Commonwealth Sci. Offic. Conf. Aust. British Commonwealth Scientific Official Conference. Specialist Conference in Agriculture—Australia 1949. Melbourne.

Brit. Elect. Allied Indust. Tech. Rept. British Electrical and Allied Industries Technical Report.

Brit. Farm Mech. British Farm Mechanization. London.

Brit. Guiana Dept. Agric. Farm Journal. British Guiana Department of Agriculture Farm Journal. Georgetown.

Brit. J. Nutrit. British Journal of Nutrition. London.

Brit. Sug. Beet Rev. British Sugar Beet Review. London.

Bul. Inst. Natl. Cercetari Tehnol. Buletinul Institutului National de Cercetari Tehnologice. Bucarest.

Bul. Soc. Şti. Cluj. Buletinul Societății de Stiințe din Cluj. Cluj.

Bull. Acad. Polon. Sci. Let. (Cl. Sci. Math.) Bulletin de l'Académie Polonaise des Sciences et des Lettres. Classe des Sciences Mathématiques et Naturelles. Série A: Sciences Mathématiques. Cracow.

Bull. Acad. Sci. (U.S.S.R.) (Cl. Sci. Math.) Sér. Biol. (*or* **Chim.**) (*or* **Géol.**) Bulletin de l'Académie des Sciences de l'Union des Républiques Soviétiques Socialistes. Classe des Sciences Mathémathiques et Naturelles. Série Biologique (*or* Série Chimique) (*or* Série Géologique). Moscow.

Bull. Agric. Congo Belge. Bulletin Agricole du Congo Belge. Brussels.

Bull. Agron. Min. France d'Outre Mer. Bulletin Agronomique. Ministère de la France d'Outre Mer.

Bull. Amer. Gladiolus Counc. Bulletin of the American Gladiolus Council.

Bull. Assoc. Chim. Bulletin de l'Association des Chimistes. Paris.

Bull. Assoc. Chim. Sucr. Bulletin de l'Association des Chimistes de Sucrerie, de Distillerie et des Industries Agricoles de France et des Colonies. Paris.

Bull. Bot. Soc. Bengal. Bulletin of the Botanical Society of Bengal.

Bull. Document. Bulletin de Documentation. Association Internationale des Fabricants de Superphosphate. Paris.

Bull. Ecole Polytech. Jassy. Bulletin de l'Ecole Polytechnique de Jassy. Jassy.

Bull. Ecol. Soc. Amer. Bulletin of the Ecological Society of America.

Bull. Engrais. Bulletin des Engrais.

Bull. Geol. Soc. Amer. Bulletin of the Geological Society of America. New York.

Bull. Imp. Inst. Bulletin of the Imperial Institute. London.

Bull. Indian Cent. Coconut Cttee. Bulletin of the Indian Central Coconut Committee.

Bull. Inst. Agron. Gembloux. Bulletin de l'Institut Agronomique et des Stations de Recherches de Gembloux. Gembloux.

Bull. Inst. Colon. Belge. Bulletin Institut Royal Colonial Belge Bulletin des Séances. Brussels.

Bull. Serv. Agric. Gén. Algér. Bulletin du Gouvernement Général de l'Algerie. Inspection, Générale et Direction de l'Agriculture. Service Agricole General. Alger.

Bull. Soc. Belge Geol. Bulletin de la Société Belge de Géologie de Paléontologie et d'Hydrologie. Brussels.

Bull. Soc. Bot. Genève. Bulletin de la Société Botanique de Genève. Geneva.

Bull. Soc. For. Belg. Bulletin de la Sociéte Centrale Forestière de Belgique. Brussels.

Bull. Soc. Sci. Bretagne. Bulletin de la Société Scientifique de Bretagne. Rennes.

Bull. Soc. Sci. Nat. Rouen. Bulletin de la Société des Amis des Sciences Naturelles et du Muséum de Rouen. Rouen.

Bull. St. Bd. Agric. Dover, Delaware. Bulletin of the State Board of Agriculture. Dover, Delaware.

Bull. Tech. Inform. Ing. Serv. Agric. Bulletin Technique des Informations des Ingénieurs des Services Agricoles. Paris.

Bull. Torrey Bot. Cl. Bulletin of the Torrey Botanical Club. New York.

Bull. Un. Agric. Égypte. Bulletin de l'Union des Agriculteurs d'Égypte. Cairo.

Bull. World For. Congr. Bulletin of the World Forestry Congress. Helsinki.

Butler Univ. Bot. Stud. Butler University Botanical Studies. Indianapolis.

C.A. Chemical Abstracts. Easton, Pa.

C.R. Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences. Paris.

C. R. Acad. Agric. Comptes Rendus Hebdomadaires des Séances de l'Académie d'Agriculture de France. Paris.

C.R. Acad. Bulg. Sci. Math. Nat.

C.R. Acad. Sci. (URSS). Comptes Rendus de l'Académie des Sciences de l'URSS. (Doklady Akademii Nauk S.S.S.R.) Leningrad.

C.R. Assemb. Inst. Inter. Rec. Better. Bruxelles. Comptes Rendus Définitifs de l'Assemblée de l'Institut International de Recherches Betteravières réunie à Bruxelles. Tirlemont.

C.R. Conf. Pédol. Méditerr. Comptes Rendus de la Conférence de Pédologie Méditerranéene, Alger-Monpellier, May 1-20, 1947.

C.R.M. Acad. Polon. Sci. Let. (Cl. Sci. Math.) *See* C.R. Sci. Math. Nat. Acad. Polon.

C.R. Sci. Math. Nat. Acad. Polon. Comptes Rendus Mensuels des Séances de la Classe des Sciences Mathémathiques et Naturelles. Académie Polonaise des Sciences et des Lettres. Cracow.

C.R. Sem. Agric. Yangambi. Comptes Rendus de la Semaine Agricole de Yangambi (du 26 février au 5 mars 1947). Brussels.

C.R. Soc. Biogéog. Comptes Rendus Sommaire des Séances de la Société de Biogéographie.

Café Salvador. San Salvador.

Cah. Ingén. Agron. Cahiers des Ingénieurs Agronomes. Paris.

Cah. Rech. Agron. Cahiers de la Recherche Agronomique. Service de la Recherche Agronomique et de l'Expérimentation Agricole. Rabat.

Calcutta Statist. Assoc. Bull. Calcutta Statistical Association. Bulletin. Calcutta.

Calif. Agric. California Agriculture. University of California. Berkeley.

Calif. Agric. Expt. Sta. Bull. California Agricultural Experiment Station. Bulletin. Berkeley.

Calif. Agric. Ext. Serv. Circ. California Agricultural Extension Service. Circular. Berkeley.

Calif. Avocado Soc. Yrbk. California Avocado Society Yearbook. Los Angeles.

Calif. Citrog. California Citrograph. Los Angeles.

Calif. Dept. Nat. Resources, Div. Forestry. State of California. Department of National Resources. Division of Forestry. Sacramento.

Canad. Chem. Proc. Indust. Canadian Chemistry and Process Industries. Toronto.

Canad. Ent. The Canadian Entomologist. Ontario.

Canad. Farm Impl. Canadian Farm Implements. Winnipeg.

Canad. J. Res. Canadian Journal of Research. Ottawa.

Canad. Natl. Res. Counc. At. Energy Project Div. Res. N.R.C. Canadian National Research Council. Atomic Energy Project.

Canad. Phytopath. Soc. Canadian Phytopathological Society.

Canada Dept. Agric. Expt. Farms Serv. Dominion of Canada. Department of Agriculture. Experimental Farms Service. Ottawa.

Canada Dept. Agric. Farm. Bull. Dominion of Canada. Department of Agriculture. Farmers' Bulletin. Ottawa.

Canada Dept. Agric. Pub. Dominion of Canada. Department of Agriculture. Publication. Ottawa.

Canada Dept. Agric. Sci. Serv. Rept. Report of the Science Service. Dominion Department of Agriculture. Ottawa.

Canada Dominion Forest Serv. Forest Prof. Lab. Mimeo Rept. Ottawa.

Canada Rept. Min. Agric. Report of the Minister of Agriculture, Dominion of Canada. Ottawa.

Cane Grow. Quart. Bull. Cane Growers' Quarterly Bulletin. Brisbane. Queensland.

Canner. The Canner. Chicago.

Canterbury Agric. Coll. N.Z. Second Hilgendorf Memorial Lecture. Canterbury Agricultural College. Old Students' Association. Second Hilgendorf Memorial Lecture. Lincoln, New Zealand.

Caoutchouc. Institute des Recherches sur la Caoutchouc en Indo-Chine.

Cawthron Inst. Rept. Cawthron Institute Report. Nelson, New Zealand.

Cbl. Ges. Forstw. Centralblatt für das Gesamte Forstwesen.

Cent. Bd. Irrig. J. Central Board of Irrigation Journal. Simla, S.W. (India).

Cent. Inst. Landbouwk. Onderz. Centraal Insttiuut voor Landbouwkundig Onderzoek. 's-Gravenhage.

Cent. Nac. Investig. Agric. La Molina Inf. Centro Nacional de Investigación y Experimentación Agricola "La Molina" Informe. Lima.

Cent. St. Forest Expt. Sta. Rept. Central States Forest Experiment Station. Report. Columbus, Ohio.

Cent. St. Forest Expt. Sta. Tech. Pap. Central States Forest Experiment Station. Technical Paper. Columbus, Ohio.

Centr. Colon. Coord. Rech. Chim. Pub. Centre Colonial de Documentation et de Coordination des Recherches Chimiques. Publication. Tervuren.

Centro Studi Ingeg. Agrar. Mem. Atti. Centro di Studi per l'Ingegneria Agraria. Memorie ed Atti. Milan.

Cereal Chem. Cereal Chemistry. Washington, D.C.

Ceres.

Ceylon Coconut Quart. Ceylon Coconut Quarterly. Lunuwila.

Ceylon Dept. Agric. Rept. Department of Agriculture, Ceylon. Report. Colombo.

Chem. Engng. News. Chemical and Engineering News. Easton, Pa.

Chem. Inds. Chemical Industries. New York.

Chem. Indust. Chemistry and Industry. London.

Chem. Inst. Canada Proc. Conf. Nuclear Chem.

Chem. Rev. Chemical Reviews. Baltimore, Md.

Chem. Tech. Die Chemische Technik. Berlin.

Chem. Weekbl. Chemisch Weekblad. Amsterdam.

Chemurgic Digest. Columbus, Ohio.

Cheshunt Exptl. Res. Sta. Rept. Cheshunt Experimental and Research Station. Report. Cheshunt, England.

Chim. Anal. Chimie Analytique. (*Formerly* Annales Chimie Analytique.) Paris.

Chim. Indust. Chimie et Industrie. Paris.

Chim. Indust. Milano. Chimica e l'Industria. Milan.

Chimica (Milan). Chimica. Milan.

Chin. J. Cott. Chinese Journal of Cotton.

Chron. Bot. Chronica Botanica. Waltham, Mass.

Chron. Mines Colon. La Chronique des Mines Coloniales, Bureau d'Études Géologiques et Minières Coloniales. Paris.

Chron. Nat. Chronica Naturae. Batavia.

Citrus Grow. Citrus Grower. Port Elizabeth.

Citrus Ind. The Citrus Industry. Tampa, Fla.

Citrus News. Melbourne.

Cocoa, Chocolate and Confect. Alliance Conf. Rept. The Cocoa, Chocolate and Confectionery Alliance, Ltd. Report. London.

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Coconut Res. Scheme (Ceylon) Bull. Coconut Research Scheme (Ceylon). Bulletin. Lunuwila.

Coffee Bd. Kenya. Mo. Bull. Coffee Board of Kenya. Monthly Bulletin. Nairobi.

Colheitas e Mercados.

Colo. Agric. Expt. Sta. Bull. Colorado Agricultural Experiment Station. Bulletin. Fort Collins.

Colo. Agric. Expt. Sta. Tech. Bull. Colorado Agricultural Experiment Station. Technical Bulletin. Fort Collins.

Colo. Farm Bull. Colorado Farm Bulletin. Quarterly Publication of Colorado Experiment Station. Fort Collins.

Colon. Office. Colonial Office. London.

Colonial Annual Repts. Colonial Annual Reports. London.

Colony and Protectorate of Kenya. Nairobi.

Com. Fertilizer Yrbk. Commercial Fertilizer Yearbook. Atlanta, Ga.

Com. Fish. Rev. Commercial Fisheries Review (*Formerly* Fishery Market News.) Washington, D.C.

Comm. Bur. Soil Sci. Tech. Commun. Commonwealth Bureau of Soil Science. Technical Communication. Harpenden, England

Comm. Fert. Commercial Fertilizer. Atlanta, Ga.

Commonw. Agricst. Commonwealth Agriculturist. Melbourne.

Commun. Inst. Forest. Fenn. Communicationes Instituti Forestalis Fenniae. Helsinki.

Compost Bull. Compost Bulletin. New Delhi.

Conf. Interamer. Agric. Conferencia Interamericana de Agricultura. Carásas.

Conn. Agric. Expt. Sta. Bull. Connecticut Agricultural Experiment Station. Bulletin. New Haven.

Conn. Agric. Expt. Sta. Spec. Bull. Connecticut Agricultural Experiment Station. Special Bulletin. New Haven.

Contr. Baltic. Univ. Pinneberg. Contributions of Baltic University Pinneberg.

Contr. Inst. d'Oka. Contributions de l'Institut d'Oka, Université de Montreal. La Trappe.

Co-op. Market. Rev. Co-operation & Marketing Review. Karachi.

Cornell Agric. Expt. Sta. Bull. Cornell University Agricultural Experiment Station. Bulletin. Ithaca, N.Y.

Cornell Agric. Expt. Sta. Mem. Cornell University. Agricultural Experiment Station. Memoirs. Ithaca, N.Y.

Corona. The Journal of His Majesty's Colonial Service. London.

Cot. Fib. Trop. Coton et Fibres Tropicales. Paris.

Countryman, Cyprus. Countryman. Nicosia.

Csl. Les. Ceskoslovenský Les. Kr. Vinohrady.

Cuad. Verd. Cuadernos Verdes. Published for the 3rd Inter-American Agricultural Conference, Caracas, 1945.

Cuba Min. Agric. Ganad.

Cult. Hand. Cultuur en Handel. Cortenburg.

Curr. Sci. Current Science. Bangalore.

Cyprus Dept. Agric. Leaflet. Department of Agriculture, Cyprus. Leaflet. Nicosia.

Cyprus Dept. Agric. Rept. Department of Agriculture, Cyprus. Report.

Cyprus For. Dept. Tech. Pamph. Cyprus Forest Department. Technical Pamphlet. Nicosia.

Date Growers' Inst., Indio Rept. Date Growers' Institute, Indio. Report. Indio, California

Del. Agric. Expt. Sta. Bull. Delaware Agricultural Experiment Station. Bulletin. Newark.

Dept. Agric. Scotland Advis. Leafl. Department of Agriculture for Scotland. Advisory Leaflet. Edinburgh.

Dept. Agric. Scotland Leafl. Department of Agriculture for Scotland. Leaflet. Edinburgh.

Dept. Sci. Indust. Res. Geol. Survey Scotland, Wartime Pamph. Department of Scientific and Industrial Research. Geological Survey of Great Britain. Scotland. Wartime Pamphlet. London.

Deut. Landw. Die Deutsche Landwirtschaft. Berlin.

Deut. Landw. Mitt. D.L.G.

Dir. Agropec. La Plata. Pub. Tec. Direccion Agropecnaria. Publicaciones Tecnicas. La Plata, Buenos Aires.

Disc. Faraday Soc. Discussions of the Faraday Society. London.

Discovery. London.

Doctoral Dissert. Ohio St. Univ. Doctoral Dissertations of Ohio State University.

Dokl. Akad. Nauk. Doklady Akademii Nauk S.S.S.R. Leningrad.

Dokl. Akad. S.-Kh. Nauk. Doklady Vsesoiuznoi Akademii Selsko-Khoziastvennykh Nauk imeni V. I. Lenina. (Comptes Rendus de l'Académie des Sciences Agricoles de V. I. Lenin.) Moscow.

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Dominion Expt. Farm Agassiz B.C. Prog. Rept. Dominion Experimental Farm, Agassiz, British Columbia. Progress Report. Ottawa.

Down to Earth. Dow Chemical Co., Midland, Michigan.

E.S.R. Experiment Station Record. Washington, D.C.

E. Afric. Agric. J. East African Agricultural Journal. Nairobi.

E. Afric. Agric. Res. Inst. Amani Rept. East African Agricultural Research Institute. Amani Report. Amani, Tanganyika.

E. Malling Res. Sta. Rept. East Malling Research Station. Annual Report. Maidstone.

East Punjab Irrig. Res. Inst. Rept. East Punjab Irrigation Research Institute. Report. Lahore.

Ecol. Monogr. Ecological Monographs. Durham, N.C.

Ecology. Brooklyn, N. Y.

Econ. Bot. Economic Botany. Lancaster, Pa.

Econ. Geog. Economic Geography. Worcester, Mass.

Econ. Geol. Economic Geology. Urbana, Ill.

Econ. Rev. Food Agric. Economic Review of Food and Agriculture. Food and Agriculture Organization of the United Nations. Washington.

Egypt. Educ. Bur. Bull. Bulletin of the Egyptian Education Bureau. London.

Egypt Min. Agric. Bull. Ministry of Agriculture, Egypt. Bulletin. Cairo.

Egypt Min. Agric. Chem. Sect. Bull. Ministry of Agriculture, Egypt. Technical and Scientific Service. Chemical Section. Bulletin. Cairo.

Egypt Min. Agric. Plant Path. Sect. Bull. Ministry of Agriculture, Egypt. Technical and Scientific Service. Section of Plant Pathology. Bulletin. Cairo.

Eire Dept. Ind. Geol. Surv. Pamph. Eire Department of Industry and Commerce. Geological Survey of Ireland. Pamphlet. Dublin.

Eire J. Dept. Agric. Journal of the Department of Agriculture, Eire. Dublin.

El Campesino. Guatemala.

El Crisol. San Juan, P.R.

Elect. Rev. Lond. Electrical Review (London). London.

Emp. Cott. Grow. Rev. Empire Cotton Growing Review. London.

Emp. Forestry J. Empire Forestry Journal. London.

Emp. Forestry Rev. Empire Forestry Review. London.

Emp. J. Expt. Agric. Empire Journal of Experimental Agriculture. London.

Endeavour. London.

Engng. News-Rec. Engineering News-Record. New York.

Erdész. Kisérl. Erdészeti Kisérletek. (Forest Researches.) Sopron.

Ergeb. Wiss. Untersuch. Schweiz. Nationalparkes. Ergebnisse Wissenschaftlicher Untersuchungen des Schweizerischen Nationalparkes. Aarau.

Estac. Expt. Agron. Habana. Estación Experimental Agronomica Habana. Habana, Cuba.

Estud. Geog. Estudios Geograficos. Madrid.

Experienta. Basle.

FAO. Food and Agriculture Organization of the United Nations. Washington.

FAO Agric. Studies. Food and Agriculture Organization. Agricultural Studies. Washington.

FAO Commod. Ser. Bull. Food and Agriculture Organization. Commodity Series Bulletin. Washington.

FAO Europ. Bull. Food and Agriculture. The FAO European Bulletin. Rome.

FAO Rept. Food and Agriculture Organization of the United Nations. Report. Washington.

F.C. Abs. Field Crop Abstracts. Aberystwyth.

Fac. LandbWet. Buitenzorg. De Faculteit van Landbouwwetenschap te Buitenzorg. Groningen-Djakarta.

Fact. Parur, India.

Farm and Forest. Ibadan, Nigeria.

Farm and Home Sci. Farm and Home Science. Utah Agricultural Experiment Station. Logan, Utah.

Farm. Impl. Mach. Rev. Farm Implement and Machinery Review. London.

Farm. Mech. Farm Mechanization. London.

Farm. Newsletter. Farmers' Newsletter. Department of Agriculture M.I.A. Agricultural Extension Service. Leeton, N.S.W.

Farm. S. Africa. Farming in South Africa. Pretoria.

Farm. Week. London. Farmers' Weekly. London.

Farm. Week. S. Africa. Farmer's Weekly. Bloemfontein.

Farmacognosia (Madrid). Madrid.

Farmer and Stockbreeder. London.

Farming. London.

Fert. Feed. J. Fertiliser, Feeding Stuffs and Farm Supplies Journal. London.

Fert. Rev. Fertilizer Review. (National Fertilizer Association.) Washington, D.C.

Fert. Soc. Pap. The Fertilizer Society Papers. London.

Fert. Soc. Proc. Proceedings of the Fertilizer Society. London.

Festschr. Fünfzigjähr. Best. Biol. Zentralanst. Berlin. Festschrift zum fünfzigjährigen Bestehen der Biologischen Zentralanstalt für Land- und Forstwirtschaft in Berlin-Dahlem.

Fifth Internat. Grassland Congr. 1949. Fifth International Grassland Congress 1949.

Fiji Agric. J. Fiji Department of Agriculture. Agricultural Journal. Suva.

Finska MosskForen. Årsb. Finska Mosskulturföreningens Årsbok. Helsinki.

First Internat. Cong. Physiol. Pathol. Milan. First International Congress of Physiology and Pathology of Animal Reproduction and of Artificial Insemination. Milan.

Fish. Res. Bd. Can. Prog. Repts. Pacific Coast Stas. Fisheries Research Board of Canada Progress Reports of the Pacific Coast Stations. Ottawa, Ontario.

Fitófilo, Mexico. San Jacinto.

Fla. Agric. Expt. Sta. Bull. Florida Agricultural Experiment Station. Bulletin. Gainesville, Fla.

Fla. Agric. Expt. Sta. Rept. Florida Agricultural Experiment Station. Annual Report. Gainesville, Fla.

Flor. Exch. Florists' Exchange and Horticultural Trade World. New York.

Flor. Rev. Florists' Review. Chicago.

Food Manuf. Food Manufacture. London.

Food Packer. Chicago.

Food Res. Food Research. Champaign, Ill.

For. Abs. Forestry Abstracts. Oxford.

For. Leaves. Forest Leaves. Philadelphia, Pa.

For. Res. India Burma. Forest Research in India and Burma. Dehra Dun, U.P.

Foreign Agric. Foreign Agriculture. Washington, D.C.

Foreign Commerce Weekly. Government Printing Office. Washington, D.C.

Forest, Jerusalem. Jerusalem.

Forestry. London.

Formosan Agric. Rev. Formosan Agricultural Review. Taiwan.

Förs. Forskn. Försök och Forskning. Stockholm.

Forsch. u. Fortschr. Forschungen und Fortschritte. Nachrichtenblatt der Deutschen Wissenschaft und Technik. Berlin.

ForschDienst. Sonderh. Forschungsdienst Sonderheft. Berlin.

Forsk. Forsøk Landbr. Forskning og Forsøk i Landbruket. Oslo.

Forst- u. Holzwirts.

Forstl. Forsøgsv. Danm. Forstlige Forsøksvaesen i Danmark. Copenhagen.

Fruit Belge. Le Fruit Belge. Gembloux.

Fruit-Grower. The Fruit-Grower. Fruiterer, Florist and Market Gardener. London.

Fruits d'Outre-Mer. Paris.

Fruits Primeurs. Fruits et Primeurs de L'Afrique du Nord et la Revue Française de l'Oranger. Casablanca.

Fruitteelt. Fruitteelt. The Hague.

Fukien Agric. J. Fukien Agricultural Journal. Foochow.

G.H.Q. Supr. Comm. Allied Powers, Nat. Res. Sect. Rept. General Headquarters Supreme Commander for the Allied Powers. Natural Resources Section Report. Tokyo.

G. Sci. Nat. Econ. Palermo. Giornale di Scienze Naturali ed Economiche di Palermo.

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Ga. Agric. Expt. Sta. Rept. Georgia Agricultural Experiment Station. Report. Experiment, Ga.

Ga. Coast. Pl. Expt. Sta. Circ. Georgia Coastal Plain Experiment Station. Circular. Tifton, Ga.

Ga. Coast. Pl. Expt. Sta. Mimeo. Paper. Georgia Coastal Plain Agricultural Experiment Station. Mimeograph Paper. Tifton, Ga.

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Ga. Expt. Sta. Circ. Georgia Experiment Station. Circular. Experiment, Ga.

Ga. Univ. Bull. University of Georgia. Bulletin. Athens, Ga.

Gartenbauforsch. Gartenbauforschung. Wiesbaden.

Gas- u. Wasserfach. Gas- und Wasserfach. Munich.

Gaz. Woda i Tech. Sanit. Gaz. Woda i Technika Sanitarna. Warsaw.

Geld. Landb.

Génie Civil. Le Génie Civil. Paris.

Geog. J. Geographical Journal. London.

Geog. Rev. Geographical Review. New York.

Geol. Surv. Wyoming Bull. The Geological Survey of Wyoming. Bulletin. Laramie, Wyo.

Géotechnique.

Gesundh.-Ing. Gesundheits-Ingenieur. Zeitschrift für Hygiene in Stadt und Land. Munich.

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Government Printer, Perth. Perth.

Government Printer, Pretoria. Pretoria.

Govt. Printing Off. Nicosia, Cyprus. Cyprus Government Printing Office. Nicosia.

Greenkeepers' Reptr. Greenkeepers' Reporter. St. Charles, Ill.

Grower. The Grower. London.

Grower's Dig. Grower's Digest. Winnipeg.

H.M.S.O. London. His Majesty's Stationery Office. London.

Hassadeh. Jerusalem.

Hawaii Agric. Expt. Sta. Bienn. Rept. Hawaii Agricultural Experiment Station. Biennial Report. Honolulu.

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Hawaii Agric. Expt. Sta. Rept. Hawaii Agricultural Experiment Station. Report. Honolulu.

Hawaii Agric. Expt. Sta. Tech. Bull. Hawaii Agricultural Experiment Station. Technical Bulletin. Honolulu.

Hawaii. Plant. Rec. Hawaiian Planters' Record. Honolulu.

Hawaii. Sug. Plant Assoc. Rept. Hawaiian Sugar Planters' Association. Report. Honolulu.

Helm. Abs. Helminthological Abstracts. St. Albans.

Helv. Chim. Acta. Helvetica Chimica Acta. Basle.

Herb. Abs. Herbage Abstracts. Aberystwyth.

Hidrol. Közlöny. Hidrologiai Közlöny. Budapest.

Highway Res. Bd. Proc. Highway Research Board, Proceedings. Washington.

Hilgardia. Berkeley, Calif.

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Hormel Inst. Univ. Minn. Rept.

Hort. Abs. Horticultural Abstracts. East Malling, Kent.

Houille Blanche. La Houille Blanche. Grenoble.

Idia. Informativo de Investigaciones Agricolas. Buenos Aires.

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Ill. Agric. Expt. Sta. Circ. Illinois Agricultural Experiment Station. Circular. Urbana.

Ill. Coll. Agric. Circ. Illinois College of Agriculture. Circular. Urbana.

Ill. St. Water Survey Bull. Illinois State Water Survey. Bulletin. Urbana.

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Imp. Coll. Trop. Agric. Trinidad. Imperial College of Tropical Agriculture, Trinidad. Trinidad.

Imp. Coll. Trop. Agric. Trinidad. Ann. Rept. Cacao Res. Imperial College of Tropical Agriculture, Trinidad. Annual Report on Cacao Research. Trinidad.

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Indian Coffee Bd., Bangalore. Indian Coffee Board. Bangalore.

Indian Coffee Bd. Mo. Bull. Indian Coffee Board. Monthly Bulletin. Bangalore.

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Indian Ecol. Indian Ecologist. Bombay.

Indian Farm. Indian Farming. Delhi.

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Indust. Chem. Industrial Chemist and Chemical Manufacturer. London.

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Indust. Saccar. Ital. L'Industria sa Saccarifer Italiana. Genoa.

Information Chilean Nitrate Agric. Serv. Chilean Nitrate Agricultural Service. Information. London.

Inform Quím. Anal. (Madrid).

Ingegnere. Milan.

Inst. Belge Amélior. Better. Pub. Institut Belge pour l'Amélioration de la Betterave. Publication. Tirlemont.

Inst. Civ. Engrs. Proc. Conf. Biol. Civ. Engng. The Institution of Civil Engineers. Proceedings of the Conference on Biology and Civil Engineering. London.

Inst. Fruits Agr. Colon.

Inst. Investig. Agron. Madrid. Bol. Instituto Nacional de Investigaciones Agronómicas. Boletin. Madrid.

Inst. Investig. Agron. Madrid Publ. Instituto Nacional de Investigaciones Agronómicas. Publicación. Madrid.

Inst. Natl. Ét. Agron. Congo Belge Pub. Sér. Sci. Institut National pour l'Étude Agronomique du Congo Belge. Publications Série Scientifique. Brussels.

Inst. Suel. Agrotec. Argentina Tir. Intema. Instituto de Suelos y Agrotecnia. Tirada Intema. Buenos Aires.

Inst. Suel. Agrotec. Argentina Pub. Instituto de Suelos y Agrotecnia. Republica Argentina. Publicación. Buenos Aires.

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Int. Sug. J. International Sugar Journal. London.

Interagra. Journal of the Institute for International Collaboration in Agriculture and Forestry in Prague. Prague.

Invest. Devel. Cyprus Agric. Investigations and Developments in Cyprus Agriculture. Nicosia.

Ion. Ion. Revista Espanola de Química Aplicada. Madrid.

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Iowa Agric. Expt. Sta. Rept. Iowa Agricultural Experiment Station. Report. Ames, Ia.

Iowa Agric. Expt. Sta. Res. Bull. Iowa Agricultural Experiment Station. Research Bulletin. Ames, Ia.

Iowa St. Coll. J. Sci. Iowa State College of Agriculture and Mechanic Arts. Journal of Science. Ames, Ia.

Irish Forestry. Dublin.

Israel Explor. J. Israel Exploration Journal. Jerusalem.

Ist. Naz. Econ. Agrar. Instituto Nazionale di Economia Agraria.

Ital. Agric. L'Italia Agricola. Rome.

Ital. Forest. Mont. L'Italia Forestale e Montana. Florence.

Izv. Akad. Nauk Belorus S.S.R. Izvestiya Akademii Nauk Belorusskoi S.S.R.

Izv. Akad. Nauk S.S.S.R. Ser. Biol. Izvestiya Akademii Nauk S.S.S.R. Seriya biologicheskaya. Moscow.

Izv. Azerbaidzhan. Fil. Akad. Nauk. Izvestiya Azerbaidzhanskogo Filiala Akademii Nauk.

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J. Agric. Assoc. China, Suppl. Journal of the Agrcultural Association of China. Supplement. Chiangtu.

J. Agric. Res. Journal of Agricultural Research. Washington, D.C.

J. Agric. Sci. Journal of Agricultural Science. London.

J. Agric. Univ. P.R. Journal of Agriculture of the University of Puerto Rico. Rio Piedras.

J. Agric. W. Aust. Journal of Agriculture of Western Australia. Perth.

J. Amer. Acad. Appl. Nutrition.

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J. Amer. Pharm. Assoc. Journal of the American Pharmaceutical Association. Washington, D.C.

J. Amer. Soc. Agron. Journal of the American Society of Agronomy. Geneva, N.Y.

J. Amer. Statist. Assoc. Journal of the American Statistical Association. Boston.

J. Amer. Water Works Assoc. Journal of the American Water Works Association. New York.

J. Anim. Ecol. Journal of Animal Ecology. London.

J. Anim. Sci. Journal of Animal Science. Urbana, Ill.

J. Appl. Phys. Journal of Applied Physics. New York.

J. Assoc. Off. Agric. Chem. Journal of the Association of Official Agricultural Chemists. Washington, D.C.

J. Aust. Inst. Agric. Sci. Journal of the Australian Institute of Agricultural Science. Sydney.

J. Bact. Journal of Bacteriology. Baltimore, Md.

J. Bd. Greenk. Res. Journal of the Board of Greenkeeping Research. Bingley, Yorks.

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J. Brit. Grassland Soc. Journal of the British Grassland Society. Aberystwyth.

J. Cent. Landowners' Assoc. Journal of the Central Landowners' Association. London.

J. Chem. Soc. London, Suppl. Issue. Journal of the Chemical Society. Supplementary Issue. London.

J. Chinese Chem. Soc. Journal of the Chinese Chemical Society. Peiping.

J. Colo. Wyo. Acad. Sci. Journal of the Colorado and Wyoming Academy of Science.

J. Dept. Agric. S. Aust. Journal of the Department of Agriculture of South Australia. Adelaide.

J. Dept. Agric. Victoria. Journal of the Department of Agriculture of Victoria. Melbourne.

J. Dept. Agric. W. Aust. Journal of the Department of Agriculture of Western Australia. Perth.

J. Ecol. Journal of Ecology. London.

J. Econ. Ent. Journal of Economic Entomology. Menasha, Wis.

J. Elisha Mitchell Sci. Soc. Journal of the Elisha Mitchell Scientific Society. Chapel Hill, N.C.

J. Experiment. Bot. Journal of Experimental Botany. Oxford.

J. Fac. Agric. Kyushu Univ. Journal of the Faculty of Agriculture of Kyushu University. Kyushu.

J. Farm. Club. Journal of the Farmers' Club. London.

J. Forestry. Journal of Forestry. Washington, D.C.

J. Franklin Inst. Journal of the Franklin Institute. Lancaster, Pa.

J. Gen. Microbiol. Journal of General Microbiology. London.

J. Helminth. Journal of Helminthology. London.

J. Hort. Sci. Journal of Horticultural Science. London.

J. Indian Bot. Soc. Journal of the Indian Botanical Society. Lahore.

J. Indian Chem. Soc. Journal of the Indian Chemical Society. Calcutta.

J. Inst. Brit. Agric. Engrs. Journal of the Institution of British Agricultural Engineers. London.

J. Inst. Corn Agric. Merchants. Journal of the Institute of Corn and Agricultural Merchants. London.

J. Inst. Sewage Purif. Journal and Proceedings of the Institute of Sewage Purification. London.

J. Instn. Elect. Engr. Journal of the Institution of Electrical Engineers. London.

J. Jamaica Agric. Soc. Journal of the Jamaica Agricultural Society. Kingston.

J. Jamaica Assoc. Sug. Tech. Journal of the Jamaica Association of Sugar Technologists. Kingston.

J. Marine Res. (Sears Foundation). Journal of Marine Research (Sears Foundation). New Haven, Conn.

J. Min. Agric. Journal of the Ministry of Agriculture and Fisheries. (*Now* Agriculture.) London.

J. Mysore Agric. Expt. Un. Journal of the Mysore Agricultural and Experimental Union. Bangalore.

J. N.Y. Bot. Gdn. Journal of the New York Botanical Garden. New York.

J. New Engl. Water Works Assoc. Journal of the New England Water Works Association. Boston, Mass.

J. Oil Colour Chem. Assoc. Journal of the Oil and Colour Chemists Association. Cambridge.

J. Phys. Coll. Chem. Journal of Physical and Colloid Chemistry. Baltimore, Md.

J. Pomol. Journal of Pomology and Horticultural Science. London.

J. Proc. Agric. Econ. Soc. Journal of the Proceedings of the Agricultural Economics Society. Reading.

J. Proc. Roy. Inst. Chem. Journal and Proceedings of the Royal Institute of Chemistry of Great Britain and Ireland. London.

J. Proc. Roy. Soc. N.S.W. Journal and Proceedings of the Royal Society of New South Wales. Sydney.

J. Roy. Agric. Soc. England. Journal of the Royal Agricultural Society of England. London.

J. Roy. Hort. Soc. Journal of the Royal Horticultural Society. London.

J. Roy. Soc. Arts. Journal of the Royal Society of Arts. London.

J. Roy. Soc. W. Aust. Journal of the Royal Society of Western Australia. Perth.

J. Rubber Res. Inst. Malaya. Journal of the Rubber Research Institute of Malaya. Kuala Lumpur.

J. S. Afric. Forestry Assoc. Journal of the South African Forestry Association. Pretoria.

J. Sci. Food Agric. Journal of the Society of Food and Agriculture. London.

J. Sci. Indust. Res. (India). Journal of Scientific and Industrial Research (India). New Delhi.

J. Sci. Instrum. Journal of Scientific Instruments. London.

J. Sediment. Petrol. Journal of Sedimentary Petrology. Tulsa, Okla.

J. Soc. Chem. Indust. Journal of the Society of Chemical Industry. London.

J. Soc. Chin. Trop. Agric. Journal of the Society of Chinese Tropical Agriculture.

J. Soc. Trop. Agric. Taiwan. Journal of the Society of Tropical Agriculture. Taihoku Imperial University. Taiwan.

J. Soil Conserv. Serv. N.S.W. Journal of the Soil Conservation Service of New South Wales. Sydney.

J. Soil Sci. Journal of Soil Science. London.

J. Soil Sci. Soc. Philipp. Journal of the Soil Science Society of the Philippines. Manila.

J. Soil Water Conserv. Journal of Soil and Water Conservation. Fairmont, W. Virginia.

J. Tenn. Acad. Sci. Journal of the Tennessee Academy of Science. Nashville, Tenn.

J. Univ. Bombay. Journal of the University of Bombay. Bombay.

J. Yorks. Agric. Soc. Journal of the Yorkshire Agricultural Society. York.

Jahrb. Hochsch. Bodenkult. Wien. Jahrbuch der Hochschule für Bodenkultur.

Jealott's Hill Res. Sta. Bull. Jealott's Hill Research Station. Bulletin. Bracknell, England.

Jednot. Svaz Česk. Zeměd. Jednotrý Svaz Českých Zemědelců. Brňo.

JordbrTek. Inst. Medd. Jordbrukstekniska Institutet. Meddelande. Ultuna, Uppsala.

Jornada Econ. Rur. An.

Kans. Agric. Expt. Sta. Bull. Kansas Agricultural Experiment Station. Bulletin. Manhattan, Kans.

Kans. Agric. Expt. Sta. Circ. Kansas Agricultural Experiment Station. Circular. Manhattan, Kans.

Kew Bull. Royal Botanical Gardens, Kew. Bulletin of Miscellaneous Information. H.M.S.O. London.

Kgl. Fysiograf. Sällskap. Lund Förh. Kungliga Fysiografiska Sällskapets i Lund Förhandlingar. Lund.

Kgl. LantbrAkad. Tidskr. Kungliga Lantbruksakademiens Tidskrift. Stockholm.

Kgl. LantbrHögsk. Ann. Kungliga Lantbrukshögskolans Annaler. (*Formerly* Lantbrukshögskolans Annaler.) Annals of the Royal Agricultural College of Sweden.) Uppsala.

Kgl. Norske Vidensk. Selsk. Forh. Kongeligt Norske Videnskabers Selskabs Forhandlinger. Trondhjem.

Kgl. Vet. Landbohøjsk. Aarsskr. (*Formerly* Kgl. Vet. LandHøjsk. Aarsskr.) Kongelige Veterinaer og Landbohøjskoles Aarsskrift. Copenhagen.

Kgl. Vet. Landbohøjsk. Afd. Landbr. Plantedysk. Medd. Kongelige Veterinaer og Landbohøjskoles Afdeling for Landbrugets Plantedyrkning. Meddelelse. Copenhagen.

Khim. Prom. Khimicheskaya Promyshlennost. (Chemical Industry.) Moscow.

Kisérl. Közlem. Kisérletügyi Közlemeńyek (Reports of the Hungarian Agricultural Experiment Stations.) Budapest.

Koll. Z. Kolloid Zeitschrift. Frankfurt-am-Main.

Kolloid. Zh. Kolloidny Zhurnal. Voronezh.

Ky. Agric. Expt. Sta. Bull. Kentucky Agricultural Experiment Station. Bulletin. Lexington.

La. Agric. Expt. Sta. Bull. Louisiana Agricultural Experiment Station. Bulletin. Baton Rouge.

La. Agric. Expt. Sta. Circ. Louisiana Agricultural Experiment Station. Circular. Baton Rouge.

La. Agric. Expt. Sta. Dairy Res. Digest. Louisiana Agricultural Experiment Station. Dairy Research Digest. Baton Rouge.

Lake States For. Expt. Sta. Tech. Notes. Lake States Forest Experiment Station. Technical Notes. University Farm, St. Paul, Minn.

Land, Wald und Garten.

Landbouw (Buitenz.) Landbouw. Buitenzorg.

Landbouw (Hague). Landbouw. 's-Gravenhage.

Landbouwk. Tijdschr. Landbouwkundig Tijdschrift. Wageningen.

LandbVoorl. Landbouwvoorlichting. 's-Gravenhage.

Landw. Forsch. Landwirtschaftliche Forschung. Darmstadt.

Landw. Jahrb. Landwirtschaftliche Jahrbücher. Berlin.

Landw. Jahrb. Schweiz. Landwirtschaftliches Jahrbuch der Schweiz. Bern.

Landw. Vortr. Landwirtschaftliche Vorträge. Frauenfeld.

LantbrHögsk. Ann. Kungliga Lantbrukshögskolans Annaler. (Annals of the Royal Agricultural College of Sweden.) Uppsala.

LantbrHögsk. Baljväxtlab. Medd. Lantbrukshögskolans Baljväxtlaboratorium. Meddelande. (Transactions of the Legume Laboratory of the Agricultural College.) Stockholm.

LantbrHögsk. Jordbr-Försöksanst. Medd. Lantbrukshögskolans Jordbruksförsöksanstalten. Meddelande. Norrtälje.

Lesn. Prom. Lesnaya Promyshlennost. (Forest Industry.) Moscow.

Lesnická Práce. Pisek.

Le Sol. Paris.

Lighter. The Lighter. Ottawa.

Lloydia. Cincinnati, Ohio.

Long Ashton Res. Sta. Rept. Agricultural and Horticultural Research Station (the National Fruit and Cider Institute). Annual Report. Long Ashton, Bristol.

M.A.B. Meteorological Abstracts and Bibliography. Lancaster, Pa.

M. R. C. Mem. Medical Research Council. Memorandum. London.

M. S. Perm. Rec. Monog. Ministry of Supply Permanent Records of Research and Development. Monograph. London.

Maa-Ja Vesitek. Tut. Maa-Ja Vesiteknillisiä Tutkimuksia. (Soil and Water Technical Investigations.) Helsinki.

Maandbl. LandbVoorlD. Maandblad voor de Landbouwvoorlichtingsdienst. 's Gravenhage.

Maat. Aikak. Maataloustieteellinen Aikakauskiria. (Journal of the Scientific Agricultural Society of Finland.) Helsinki.

Maatalous ja Koetoiminta.

Macaulay Inst. Rept. Macaulay Institute for Soil Research. Report. Craigiebuckler, Aberdeen.

Macch. Mot. Agric. Macchine e Mototi Agricoli. Bologna.

Mach. Agric. Machinisme Agricole et Équipment Rural. Paris.

Maderil. Buenos Aires.

Madras Agric. J. Madras Agricultural Journal. Coimbatore.

Magyar Biol. Kutatóintézet Munkái. Magyar Biológiai Lutatóintézet Munkái. (Reports of the Hungarian Biological Station at Tihany.) Tihany.

Maine Agric. Expt. Sta. Bull. Maine Agricultural Experiment Station. Bulletin. Orono.

Malay. Agric. J. Malayan Agricultural Journal. Kuala Lumpur.

Malaya Dept. Agric. Gen. Ser. Department of Agriculture. Federation of Malaya. General Series. Johore.

Malayan Questions. Cambridge.

Manuf. Chem. Manufacturing Chemist. London.

Manx J. Agric. Manx Journal of Agriculture. Douglas, I. of Man.

Market Grow. J. Market Growers' Journal. Louisville. Ky.

Mass. Agric. Expt. Sta. Bull. Massachusetts Agricultural Experiment Station. Bulletin. Amherst, Mass.

Mat. Term. Ért. Matematikai és Termeszettudományi Értesitö. (Review of Mathematics and Natural Sciences.) Budapest.

Me. Agric. Expt. Sta. Bull. Maine Agricultural Experiment Station. Bulletin. Orono.

Medd. Kgl. LantbrAkad. Vetenskapsavd. Meddelanden från den Kungliga Lantbruksakademiens Vetenskapsavdelning. Uppsala.

Medd. LantbrHøgsk. JordbrFörsöksanst. *See* LantbrHøgsk. JordbrFörsöksanst. Medd.

Medd. Norske Myrselsk. Meddelelser fra det Norske Myrselskab. Oslo.

Medd. Norske Skogforsøksv. Meddelelser Norske Skogforsøksvesen. Oslo.

Medd. SkogsforskInst. Meddelanden från Statens Skogsforskninginstitut. (Report of the Forest Research Institute of Sweden.) Stockholm.

Medd.Trädgårdsförs.Malmō.

Meded. Alg. Proefsta. A.V.R.O.S. Rubberserie. Mededeelingen van het Algemeen Proefstation der Algemeene Vereeniging van Rubberplanters ter Oostkust van Sumatra. Rubberserie. Batavia.

Meded. Alg. Proefsta. Landbouw. Mededelingen van het Algemeen Proefstation voor de Landbouw. Buitenzorg (Java).

Meded. Direct. Tuinb. Mededeelingen van den Directeur van den Tuinbouw. The Hague.

Meded. Inst. Ration. Suikerprod. Mededeelingen van het Instituut voor Rationeele Suikerproduktie. (*Formerly* Meded. Inst. Suikerbiet.) Bergen-op-Zoom.

Meded. Inst. Suikerbiet. (*Now* Meded. Inst. Ration. Suikerprod.) Mededeelingen van het Instituut voor Suikerbietenteelt.

Meded. Konink. Ned. Akad. Wetens. Mededeelingen van de Koninklijke Akademie van Wetenschappen. Amsterdam.

Meded. LandbHogesch. Opzoekingssta. Gent. Mededeelingen der Landbouwhogeschool en der Opzoekingsstations van den Staat te Gent. Ghent.

Meded. LandbHogesch. Wageningen. Mededeelingen van de Landbouwhogeschool. Wageningen.

Meded. Tuinb. VoorlDienst. Mededeelingen van den Tuinbouw-Voorlichtingsdienst. The Hague.

Meld. Norg. LandbrHøgsk. Meldinger fra Norges Landbrukshøgskole. (Scientific Reports from the Agricultural College of Norway.) Ås.

Meld. Stat. Forsøksgard Grønsakdyrking Kvithamar. Melding fra Statens Forsøksgard i Grønsakdyrking. Kvithamar.

Meld. Stat. Plantev. Melding fra Statens Plantevern. Oslo.

Mem. Assoc. Tec. Azucar. Cuba. Memoria de la Conferencia Anual, Associación de Técnicos Azucareros de Cuba. Havana.

Mem. Fac. Agric. Natl. Taiwan Univ. Memoirs of the Faculty of Agriculture, National Taiwan University. Taipei.

Mém. Inst. Natl. Polon. Econ. Rur. Puławy. Mémoires de l'Institut National Polonais d'Économie Rurale ă Puławy. Puławy.

Mem. Inst. Oswaldo Cruz. Memorias do Instituto Oswaldo Cruz. Rio de Janeiro.

Mem. Proc. Manchester Phil. Soc. Memoirs and Proceedings of the Manchester Literary and Philosophical Society. Manchester.

Met. Mag. Meteorological Magazine. London.

Mezög. Kutat. Mezögazdasági Kutatások. Budapest.

Mich. Agric. Expt. Sta. Quart. Bull. Michigan Agricultural Experiment Station. Quarterly Bulletin. East Lansing.

Mich. Agric. Expt. Sta. Spec. Bull. Michigan Agricultural Experiment Station. Special Bulletin. East Lansing.

Mich. Agric. Expt. Sta. Tech. Bull. Michigan Agricultural Experiment Station. Technical Bulletin. East Lansing.

Mikrobiologiya. Moscow.

Mikrochem. Mikrochim. Acta. Mikrochemie vereinigt mit Mikrochimica Acta. Vienna.

Mikroskopie.

Milchwiss. Die Milchwissenschaft. Nuremberg.

Min. Agric. B. Aires Misc. Pub.

Min. Agric. Bull. Ministry of Agriculture and Fisheries. Bulletin. London.

Min. Agric. Ganad. Argentina Pub. Misc. Ministerio de Agricultura y Ganaderia, Republica Argentina. Publicacíon Miscelanea. Buenos Aires.

Min. Agric. Tech. Bull. Ministry of Agriculture and Fisheries. Technical Bulletin. London.

Min. Agric. Tech. Commun. Ministry of Agriculture and Fisheries. Technical Communication. London.

Min. Ganad. Agric. Uruguay Dir. Agron. Ministerio de Ganaderia y Agricultura. Dirección de Agronomia. Montevideo.

Min. Viacão a Obras Públicas,' Brazil Pub. Ministério da Viação e Obras Públicas, Departamento Nacional de Obras Contra as Sêcas, Serviço Agro-Industrial. Fortaleza, Ceará, Brazil.

Miner. Mag. Mineralogical Magazine and Journal of the Mineralogical Society. London.

Minn. Agric. Expt. Sta. Bull. Minnesota Agricultural Experiment Station. Bulletin. St. Paul.

Minn. Agric. Expt. Sta. Tech. Bull. Minnesota Agricultural Experiment Station. Technical Bulletin. St. Paul.

Miss. Agric. Expt. Sta. Bull. Mississippi Agricultural Experiment Station. Bulletin. State College.

Miss. Agric. Expt. Sta. Circ. Mississippi Agricultural Experiment Station. Circular. State College.

Miss. Agric. Expt. Sta. Rept. Mississippi Agricultural Experiment Station. Report. State College.

Missouri Agric. Expt. Sta. Bull. Missouri Agricultural Experiment Station. Bulletin. Columbia.

Missouri Agric. Expt. Sta. Res. Bull. Missouri Agricultural Experiment Station. Research Bulletin. Columbia.

Mitt. Agrik. Inst. E.T.H. Zürich. Mitteilungen aus dem Agrikulturchemischen Institut E.T.H. Zürich.

Mitt. Bot. Inst. Univ. Sopron. Mitteilungen des Botanischen Institutes der Universität. Sopron.

Mitt. Chem. Forsch.- Inst. Ind. Oesterr. Mitteilungen des Chemischen Forschungsinstitutes der Industrie Oesterreichs. Vienna.

Mitt. Lebensm. Hyg. Mitteilungen aus dem Gebiet der Lebensmitteluntersuchung und Hygiene. Bern.

Mitt. Reichsinst. Ausländ. Koloniale Forstwirt. Mitteilungen des Reichsinstituts für Ausländische Koloniale Forstwirtschaft.

Mitt. Reichsinst. Forst- u. Holzw.

Mitt. Schweiz. Anst. Forstl. Versuchsw. Mitteilungen der Schweizerischen Anstalt für das Forstliche Versuchswesen. Zurich.

Mitt. Schweiz. Ent. Ges. Mitteilungen der Schweizerischen Entomologischen Gesellschaft. Schaffhausen.

Mitt. ZentInst. Forst- u. Holzwirts. Mitteilungen des Zentralinstitutes für Forst- und Holzwirtschaft. Hamburg-Reinbek.

Monographs Natural Sciences Budapest.

Mont. Agric. Expt. Sta. Bull. Montana Agricultural Experiment Station. Bulletin. Bozeman.

Mont. Agric. Expt. Sta. Circ. Montana Agricultural Experiment Station. Circular. Bozeman.

Montes, Madrid.

Morris Arboretum Bull. Morris Arboretum Bulletin. Lancaster, Pa.

Mother Earth. Haughley, England.

Mycologia. Lancaster, Pa.

Mycopathologia.

Mysore Agric. J. Mysore Agricultural Journal. Bangalore.

N.A.A.S. Farm. Mach. Leafl. National Agricultural Advisory Service and National Institute of Agricultural Engineering. Farm Machinery Leaflet. Ministry of Agriculture and Fisheries. London.

N.A.A.S. Quart. Rev. N.A.A.S. Quarterly Review. The Journal of the National Agricultural Advisory Service. London.

N.C. Agric. Expt. Sta. Bull. The Agricultural Experiment Station of the North Carolina State College of Agriculture and Engineering. Bulletin. Raleigh.

N.C. Agric. Expt. Sta. Tech. Bull. The Agricultural Experiment Station of the North Carolina State College of Agriculture and Engineering. Technical Bulletin. Raleigh.

N.C. Agric. Ext. Serv. Circ. North Carolina Agricultural Extension Service. Circular. Raleigh.

N.-E. Wood Util. Counc. Bull. Northeastern Wood Utilization Council. Bulletin. New Haven, Conn.

N.-E. Wood Util. Counc. Wood Notes. Northeastern Wood Utilization Council. Wood Notes. New Haven, Conn.

N.J. Agric. Expt. Sta. Bull. New Jersey Agricultural Experiment Station. Bulletin. New Brunswick.

N.J. Agric. Expt. Sta. Rept. New Jersey Agricultural Experiment Station. Report. New Brunswick.

N.S.W. Dept. Conserv. Soil Conserv. Serv. Department of Conservation. Soil Conservation Service. New South Wales. Sydney.

N.Y. St. Agric. Expt. Sta. Bull. New York State Agricultural Experiment Station. Bulletin. Geneva, N.Y.

N.Y. St. Agric. Expt. Sta. Rept. New York State Agricultural Experiment Station. Report. Geneva, N.Y.

N.Y. St. Flower Grow. Bull. New York State Flower Growers (Inc.). Bulletin. New York.

N.Z. Dept. Agric. Bull. New Zealand Department of Agriculture. Bulletin. Wellington.

N.Z. Dept. Agric. Rept. New Zealand Department of Agriculture. Report. Wellington.

N.Z. Dept. Sci. Indust. Res. Bull. New Zealand Department of Scientific and Industrial Research. Bulletin. Wellington.

N.Z. Dept. Sci. Indust. Res. Rept. New Zealand Department of Scientific and Industrial Research. Report. Wellington.

N.Z. Dept. Sci. Indust. Res. Soil Bur. Bull. New Zealand Department of Scientific and Industrial Research. Soil Bureau Bulletin. Wellington.

N.Z. Grass. Assoc. Proc. Conf. New Zealand Grassland Association. Proceedings of the Conference. Palmerston North.

N.Z. J. Agric. New Zealand Journal of Agriculture. Wellington.

N.Z. J. For. New Zealand Journal of Forestry. Wellington.

N.Z. J. Sci. Tech. New Zealand Journal of Science and Technology. Wellington.

N.Z. Sci. Congr. New Zealand Science Congress (1947).

N. Amer. Gladiolus Counc. Bull. North American Gladiolus Council Bulletin. Manchester, Conn.

N. Dak. Agric. Expt. Sta. Bimo. Bull. North Dakota Agricultural Experiment Station. Bimonthly Bulletin. Fargo.

N. Dak. Agric. Expt. Sta. Bull. North Dakota Agricultural Experiment Station. Bulletin. Fargo.

N. Ireland Min. Agric. Mo. Rept. Government of Northern Ireland Ministry of Agriculture. Monthly Report. Belfast.

N. Mex. Agric. Expt. Sta. Bull. New Mexico Agricultural Experiment Station. Bulletin. State College.

N. Rhod. Dept. Agric. Northern Rhodesia Department of Agriculture. Lusaka.

NachrBl. Deut. PflSchD. (Berlin). Nachrichtenblatt für den Deutschen Pflanzenschutzdienst. Berlin.

NachrBl. Deut. PflSchD. (Braunschweig). Nachrichtenblatt des Deutschen Pflanzenschutzdienstes. Stuttgart.

Natl. Fert. Assoc. Pamph. National Fertilizer Association. Pamphlet. Washington, D.C.

Nat. Geog. Soc. India. National Geological Society of India.

Nat. Geol. Surv. China. National Geological Survey of China. Nanking.

Nat. Hist. Bull. Siam. Soc. Natural History Bulletin of the Siam Society. Bangkok.

Natur u. Land. Natur und Land.

Natura Jutlandica.

Nature. London.

Naturforsch. Med. Deutschland 1939-1946. Naturforschung und Medizin in Deutschland 1939-1946. Für Deutschland bestimmte Ausgabe der Fiat Review of German Science. Wiesbaden.

Naturvidenskabelige Skrifter. Copenhagen.

Naturwiss. Rundschau. Naturwissenschaftliche Rundschau.

Naturwissenschaften. Die Naturwissenschaften. Berlin.

Nauka Zhizn. Moscow.

Neb. Agric. Expt. Sta. Bull. Nebraska Agricultural Experiment Station. Bulletin. Lincoln.

Neb. Agric. Expt. Sta. Circ. Nebraska Agricultural Experiment Station. Circular. Lincoln.

Neb. Agric. Expt. Sta. Res. Bull. Nebraska Agricultural Experiment Station. Research Bulletin. Lincoln.

Ned. Boschbouw Tijdschr. Nederlandsch Boschbouw Tijdschrift. Bilthoven.

Neue Mitt. Landw. Neue Mitteilungen für die Landwirtschaft. Berlin.

New Phytol. New Phytologist. London.

Nieuwe Veldbode. De Nieuwe Veldbode. The Hague.

Nitrate Corp. Chile, Cairo. Nitrate Corporation of Chile (Egypt and Near East Branch). Cairo.

Nogaku. Tokyo.

Nord. JordbrForsk. Nordisk Jordbrugsforskning. Copenhagen.

Norrlands SkogsvFörb. Tidskr. Norrlands Skogsvårdsförbunds Tidskrift. Stockholm.

Norsk. Landbr. Norsk Landbruk. Oslo.

Northeast. Wood Util. Counc. Bull. *See* N.-E. Wood Util. Counc. Bull. New Haven.

Notas Agronomicas Colombia. Notas Agronomicas. Palmira, Colombia.

Noticioso B. Aires.

Not. Mal. Piante. Notiziario sulle Malattie delle Piante. Pavia and Milan.

Notes Farm. Notes for Farmers. Issued by Department of Agriculture for Scotland. Edinburgh.

Nucleonics.

Nung Pao.

Nuovo G. Bot. Ital. Nuovo Giornale Botanico Italiano (e Bolletino della Società Botanica Italiana). Firenze.

Nutr. Abs. Nutrition Abstracts. Aberdeen.

Nutr. Bull. Nutrition Bulletin (China). Chengtu.

Nutr. Res. Bull.

Nyasaland Agric. Quart. J. Nyasaland Agricultural Quarterly Journal. Blantyre.

O Biológico. São Paulo, Brazil.

Occ. Pub. Sci. Hort. Occasional Publication on Scientific Horticulture. Canterbury, Kent.

Ochrana Rostlin. Prague.

Ohio Agric. Expt. Sta. Bull. Ohio Agricultural Experiment Station. Bulletin. Wooster.

Ohio Agric. Expt. Sta. Res. Bull. Ohio Agricultural Experiment Station. Research Bulletin. Wooster.

Okla. Agric. Expt. Sta. Bull. Oklahoma Agricultural Experiment Station. Bulletin. Stillwater.

Okla. Agric. Expt. Sta. Misc. Pub. Oklahoma Agricultural Experiment Station. Miscellaneous Publication. Stillwater.

Okla. Agric. Expt. Sta. Tech. Bull. Oklahoma Agricultural Experiment Station. Technical Bulletin. Stillwater.

Oléagineux. Paris.

Olearia.

Ontario Dept. Agric. Bull. Ontario Department of Agriculture. Bulletin. Toronto.

Ontario Hort. Expt. Sta. Rept. Ontario Horticultural Experiment Station. Report.

Opera Naz. Combattenti. Opera Nazional per i Combattenti. Rome.

Orchard. N.Z. Orchardists of New Zealand. Wellington.

Oreg. Agric. Expt. Sta. Bull. Oregon Agricultural Experiment Station. Bulletin. Corvallis.

Oreg. Agric. Expt. Sta. Circ. Oregon Agricultural Experiment Station. Circular. Corvallis.

Österreich. Zool. Ztschr. Österreichische Zoologische Zeitschrift. Vienna.

Oxford For. Mems. Oxford Forestry Memoirs. Oxford.

P.R. Agric. Expt. Sta. Circ. Puerto Rico Agricultural Experiment Station. Circular. Rio Piedras.

P.R. Esta Expt. Agric. Bol. Puerto Rico Estación Experimental Agrícola. Bolétin. Rio Piedras.

P.R. Fed. Expt. Sta. Circ. Puerto Rico Federal Experiment Station. Circular. Washington, D.C.

P.R. Fed. Expt. Sta. Rept. Puerto Rico Federal Experiment Station. Report. Rio Piedras.

Pa. Agric. Expt. Sta. Bull. Pennsylvania State College School of Agriculture. Agricultural Experiment Station. Bulletin. State College.

Pa. Agric. Expt. Sta. Progr. Rept. The Pennsylvania State College School of Agriculture. Agricultural Experiment Station. Progress Report. State College.

Pacific Sci. Pacific Science. Honolulu.

Palestine Bd. Sci. Indust. Res. Government of Palestine. Board for Scientific and Industrial Research. Jerusalem.

Palestine Dept. For. Rept. Palestine Department of Forestry. Report. Jerusalem.

Palestine J. Bot. Palestine Journal of Botany [(J) Jerusalem series; (R) Rehovoth series].

Pan Amer. Un. Washington. Mimeo. Pan American Union. Mimeograph. Washington, D.C.

Państw. Inst. Nauk. Gospod. Wiejsk. Puławy. Państwowego Instytutu Naukowego Gospodarstwa Wiejskiego w Puławach. Puławy.

Paper Tr. J. Paper Trade Journal. New York.

Parasitology. London.

Pedology. (*Now* Pochvovedenie.) Moscow.

PflSch. Ber. Wien. Pflanzenschutz Berichte. Vienna.

Pharmazie.

Philipp. Agricst. Philippine Agriculturist. Los Banos, P.J.

Photogramm. Engng. Photogrammetric Engineering.

Physica. Series IVA of Archives Néerlandaises des Sciences Enactes et Naturelles. The Hague.

Physiol. Plant. Physiologia Plantarum. Societas Physiologiae Plantarum Scandinavica. Copenhagen.

Phytopath. Phytopathology. Lancaster, Pa.

Phytopath. Z. Phytopathologische Zeitschrift. Berlin.

Plant and Soil. The Hague.

Plant Dis. Reptr. Plant Disease Reporter. Washington, D.C.

Plant Dis. Reptr. Suppl. Plant Disease Reporter. Supplement. Washington, D.C.

Plant Physiol. Plant Physiology. Lancaster, Pa.

Pochvovedenie. (*Formerly* Pedology.) Moscow.

Potasse. La Potasse. Mulhouse.

Power Farm. British Power Farmer and Agricultural Engineer. Dublin.

Pr. Bull. Univ. Alberta. University of Alberta. Press Bulletin. Edmonton.

Pracé Moravske Přirod. Společnosti. Pracé Moravske Přirodovědecké Společnosti. Brno.

Priroda. Leningrad.

Proc. Acad. Pol. Sci. Proceedings of the Academy of Political Science, Columbia University. New York.

Proc. Accad. Georgofili. Atti dell' Accademia dei Georgofili. Florence.

Proc. Agric. Soc. Trin. Tob. Proceedings of the Agricultural Society of Trinidad and Tobago. Port of Spain.

Proc. Amer. Soc. Civ. Eng. Proceedings of the American Society of Civil Engineers. New York.

Proc. Amer. Soc. Hort. Sci. Proceedings of the American Society for Horticultural Science. Geneva, N.Y.

Proc. Amer. Soc. Sug. Beet Tech. Proceedings of the American Society of Sugar Beet Technologists. Longmont, Colo.

Proc. Amer. Tung Oil Assoc. Proceedings of the American Tung Oil Association. Pensacola, Fla.

Proc. Ann. Cong. S. Afric. Sug. Tech. Assoc. Proceedings of the Annual Congress of the South African Sugar Technologists' Association. Durban.

Proc. Auburn Conf. Radioactive Isotopes Agric. Res. Proceedings of a Conference on Radioactive Isotopes in Agricultural Research. Auburn, Ala.

Proc. B.W.I. Sug. Tech. Proceedings of the Meeting of British West Indies Sugar Technologists. Trinidad.

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